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OF

SOUTHERN CALIFORNIA



YEAR BOOK FOR 1905-06

PUBLISHED BY THE UNIVERSITY
MARCH, 1906.

MARCH, 1906

~~Withdrawn~~

UNIVERSITY
OF
SOUTHERN CALIFORNIA

YEAR BOOK FOR 1905-06

PUBLISHED BY THE UNIVERSITY
LOS ANGELES, CALIFORNIA

W. H. S.

1906

1907

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CALENDAR

1906-1907

THE COLLEGE OF LIBERAL ARTS

1906		
Sept. 17	Monday	} Entrance examinations and registration for First Semester
Sept. 18	Tuesday	
Sept. 19	Wednesday	Instruction begins
Nov. 29	Thursday	} Thanksgiving Vacation
Nov. 30	Friday	
Dec. 17	Monday	} Christmas Vacation
1907		
Jan. 1	Tuesday	} Day of Prayer for Colleges
Jan. 31	Thursday	
Feb. 1	Friday	} Mid-year examinations
Feb. 6	Wednesday	
Feb. 6	Wednesday	First semester ends
Feb. 7	Thursday	} Entrance examinations and registration for Second Semester
Feb. 8	Friday	
Feb. 11	Monday	Instruction begins
Feb. 22	Friday	Washington's Birthday
April 1	Monday	} Spring Vacation
April 9	Tuesday	
May 30	Thursday	Memorial Day
June 13	Thursday	} Final examinations
June 18	Tuesday	
June 16	Sunday	Baccalaureate Sunday
June 18	Tuesday	Annual Meeting of Trustees
June 20	Thursday	Commencement
June 21	Friday	Alumni reunion and banquet

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THE UNIVERSITY

The University of Southern California was founded in 1879, and was formally opened for students in October, 1880. It includes the following colleges each of which has a distinct faculty of instruction.

COLLEGE OF LIBERAL ARTS,
36th Street and Wesley Avenue.

COLLEGE OF MEDICINE,
737 Buena Vista Street.

COLLEGE OF PHARMACY,
737 Buena Vista Street.

COLLEGE OF DENTISTRY,
Temple Block, Temple and Spring Streets.

COLLEGE OF LAW,
Rindge Building, 3rd Street and Broadway.

COLLEGE OF MUSIC,
36th Street and Wesley Avenue.

COLLEGE OF ORATORY,
36th Street and Wesley Avenue.

COLLEGE OF FINE ARTS,
Garvanza.

A preparatory School and a Commercial School are also maintained in connection with the College of Liberal Arts.

The government of the University is committed to a Board of twenty-one Trustees. This Board has the power to elect professors and other officers of instruction, to confer degrees, to manage the property of the University Corporation, and to determine the general policy of the institution.

The endowment, started a few years ago by the munificent gift of sixty-five thousand dollars by the late Rev. Asahel M. Hough and his wife, Anna G. Hough, has steadily grown until it has reached the sum of three hundred thousand dollars.

During the present year more than fifty thousand dollars have been spent on buildings and improvements on the ten acre campus in West Los Angeles. The new science halls have been equipped with the most modern apparatus. The library has been doubled in its capacity and many new books have been purchased. The gymnasium, the three tennis courts, the athletic field, with its quarter mile cinder path, and the bleachers with thirty five hundred seating capacity, furnish ample facilities for physical training and out door sport.

ADVANTAGES OF LOCATION

Los Angeles is the metropolis of Southern California which comprises the south half of the State. Its population of about 200 000 represents almost every State in the Union and many foreign lands.

The climate throughout the year is such that tourists from every quarter come to spend a part of the year, and many return to make this their permanent home.

It is the greatest railroad center on the Pacific Coast. Four transcontinental lines are now complete. A network of electric roads connects the city with the numerous beaches, mountain resorts and outlying towns. These are reached by delightful journeys through orange groves and orchards of semi-tropical fruits characteristic of the region.

Los Angeles is known as the Convention City of the West. Every year brings large bodies of people here for the discussion of every kind of public interest known to science, politics, religion and the humanities.

These great conventions afford the student an excellent opportunity to study the subjects of their discussion. while the resident population of the city is sufficiently large to afford important advantages for the study of sociology and kindred subjects.

The diverse view-points of the groups of students in the eight colleges make their association an important educational factor.

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SEWARD A. SIMONS, A. B.,

Insurance Law.

JOHN D. POPE,

Legal Ethics.

J. W. SWANWICK, LL. B.,

Appeals.

E. W. CAMP, A. B., LL. B.,

Federal Procedure.

M. W. CONKLING

Derivation of Titles.

E. W. BRITT, Ex-Supreme Court Commissioner,

Water Rights.

THE COLLEGE OF MUSIC

WALTER FISHER SKEELE, A. B., Dean, . . . 2709 W. 8th St.
Professor of Pianoforte and Pipe Organ.

JOHN DOUGLAS WALKER, 837 W. 35th St.
Voice Culture and Directing.

CHARLES E. PEMBERTON, Blanchard Bldg.
Violin, Harmony, Counterpoint and Musical Theory.

BERTHA MORRIS, 2729 W. 8th St.
Piano.

LILLIAN M. ARNETT, 1918 Bush St.
Piano.

CARRIE A. TROWBRIDGE, 126 W. 39th St.
Piano.

WILLIAM H. MEAD, Blanchard Bldg.
Flute.

C. S. DELANO, 2610 W. 8th St.
Guitar and Mandolin.

THE COLLEGE OF ORATORY

- BEULAH WRIGHT, Dean, 211 W. 21st St.
Professor of Oratory and Dramatic Art.
- ELSIE VANDERPOOL, 1077 W. 37th St.
Professor of Expression.
Director of Physical Education of Women.
- GERTRUDE COMSTOCK, Ph. B., Secy., . . . 1077 W. 37th St.
Professor of Interpretation and Physical Training.
Principal Children's Department.
- ALBERT B. ULREY, A. M., 1435 W. 23rd St.
Professor of Physiology and Hygiene.
- JAMES MAIN DIXON, A. M., F. R. S. D.,
Professor of English Language and Literature.
- HARVEY R. HOLMES, Ph. B., 3644 S. Flower St.
Director of Physical Education for Men.
- STELLA WEBSTER MORGAN, A. B., . . . 1077 W. 37th St.
Professor of English Literature
- TULLY C. KNOLES, A. B., 310 W. 48th St.
Professor of History.

THE COLLEGE OF FINE ARTS

- WILLIAM L. JUDSON,
Dean.
- ROSE PITCHER,
Professor of Drawing.
- ARLEY G. TOTTENHAM,
Professor of Mechanical Drawing.
- JOHN W. NICOLL,
Professor of Drawing
- WALTER H. JUDSON,
Professor of Design.
- EDNA BLUMVE,
Professor of Clay Modeling.

BERTHA M. RUNDSTROM,
Professor of Art History.

BENJAMIN C. BROWN,
Examiner.

JOHN W. NICHOLL,
Examiner.

THE COMMERCIAL SCHOOL

MILTON H. STARKE, 642 W. 37th St.
Principal.

CLARENCE E. CHRITTON, 841 W. 37th St.
Assistant.

THE COLLEGE OF LIBERAL ARTS

CONDITIONS OF ADMISSION

I.—Admission to the Freshman Class

Candidates for admission to the Freshman class must be at least sixteen years of age, and must present evidence of good moral character, together with credentials from the institution in which they were prepared, or from their last instructors.

Candidates must also give, either by examination or by certificate, satisfactory evidence of preparation in *fifteen units* of preparatory subjects. They may be selected from either of the following groups of subjects:

GROUP A.

English (1)†	. . . . .	2 units*
Algebra (2)	. . . . .	1
Plane Geometry (3)	. . . . .	1
United States History and Civil Govern- ment (4)	. . . . .	1
Latin (7) and (8)	. . . . .	4
Greek (9a)	}	2
or German (10)		
or French (11)		
Physics (6)	. . . . .	1
Elective subjects, chosen by the candidate from the general list of preparatory sub- jects described on pp. 26 ff	. . . . .	3
		<hr/> 15 units

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

†The figures in parentheses give the number of the subjects in the general list of preparatory subjects described on pp. 26 ff.

GROUP B.

English (1) †	. . . . .	2 units*
Algebra (2)	. . . . .	1
Plane Geometry (3)	. . . . .	1
United States History and Civil Govern- ment (4)	. . . . .	1
Latin (7)	. . . . .	2
German (10)	}	2
or French (11)		
Latin (8)	}	2
or German (10) (if not counted above)		
or French (11) (if not counted above)		
or Spanish (12)		
or English (14)		
or Mathematics (15a or 15b) and a Science	}	1
Physics (6)		
Elective subjects, chosen by the candidate from the general list of preparatory sub- jects described on pp. 26ff		3

 15 units

GROUP C.

English (1)†	. . . . .	2 units*
Algebra (2)	. . . . .	1
Plane Geometry (3)	. . . . .	1
United States History and Civil Govern- ment (4)	. . . . .	1
German (10)	. . . . .	2
Latin (7)	}	2
or French (11)		
or Spanish (12)		
or English (14)		
Algebra (15a)	. . . . .	1
Physics (6)	. . . . .	1
Botany (16)	}	1
or Zoology (17)		
or Chemistry (19)		
Electives subjects, chosen by the candidate from the general list of preparatory sub- jects described on pp. 26ff		3

 15 units

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

†The figures in parentheses give the number of the subjects in the general list of preparatory subjects described on pp. 26 ff.

CONDITIONAL ADMISSION.

Candidates may be conditionally admitted to the Freshman class, if they are not deficient in more than *twenty semester hours* (two units) of preparatory work. They must, however, remove all such conditions before they may obtain Junior standing.

METHODS OF ADMISSION

1. ADMISSION BY CERTIFICATE

Candidates who have completed a regular course in the Preparatory School of this University, or in an accredited high school, may be admitted to the College of Liberal Arts without examination, on presenting a certificate signed by the principal. Credit will be given only for entrance subjects in which the candidate is specifically recommended. Recommendations will be accepted from any school accredited by this University, Leland Stanford Junior University, or the University of California. The Faculty reserves the right, however, to require an examination upon any or all of the studies set for entrance, whenever there is doubt that the preparation has been sufficient. The candidate should bring his certificate of recommendation when he presents himself for matriculation.

2. ADMISSION BY EXAMINATION

The regular examinations for admission will begin Monday, September 17, 1906, when candidates will be examined in all the required admission subjects not covered by certificate from an accredited school.

Preparatory Subjects

The following items will serve to indicate both the kind and the amount of work expected in the different preparatory subjects accepted for admission, as well as the units of credit allowed for the same:

1. **ENGLISH.** A short essay on an assigned subject will be called for, with the purpose of testing accuracy in spelling, punctuation, division into paragraphs, and power of expression in clear and correct English. The candidate will also be required to give evidence of a thorough study of the subject-matter, form and structure of each of the following works: Scott's

Lady of the Lake, Carlyle's Essay on Burns, Selected Poems of Burns, Lowell's Vision of Sir Launfal, the de Coverley Papers, (Addison and Steele), Shakespeare's Merchant of Venice, George Eliot's Silas Marner, Goldsmith's Deserted Village, Scott's Ivanhoe, Coleridge's Ancient Mariner, Milton's L'Allegro and Il Penseroso, Macaulay's Essay on Warren Hastings, Shakespeare's Julius Caesar, Tennyson's Idylls of the King (Selections.) (2 units.)

2. **ELEMENTARY ALGEBRA.** This should include the following subjects: The four fundamental operations with emphasis placed on the type-forms in multiplication and division, factoring, highest common factor and lowest common multiple, fractions and fractional equations, simultaneous equations of the first degree, the binomial theorem for a positive integral exponent, evolution, theory of exponents, radicals, quadratic equations, and the solution of problems involving the various classes of equations. Emphasis should be placed on factoring and on the solutions of equations. (1 unit.)

3. **PLANE GEOMETRY.** This includes the usual theorems and problems of elementary plane geometry. An important part of the work should be the solution of original exercises including problems in mensuration. (1 unit.)

4. **UNITED STATES HISTORY AND CIVIL GOVERNMENT.** Channing, and Fisk, or an equivalent. (1 unit.)

5. **GRECIAN AND ROMAN HISTORY.** Myers, or an equivalent. (1 unit.)

6. **PHYSICS.** The equivalent of one year's work, including both laboratory and text-book work. Accurate notes of the laboratory work should be kept. Gage's Elements, or Carhart and Chute's High School Physics will serve to indicate the amount of text-book study required. (1 unit.)

7. **ELEMENTARY LATIN.** For the requirements of Elementary Latin an accurate pronunciation is necessary, a thorough knowledge of regular forms and principles of syntax, a vocabulary of about fifteen hundred words, and the ability to translate easy prose at sight, and to write simple sentences. These attainments can be secured from the careful study of an elementary text-book and four books of Caesar, together with daily

oral or written composition, and occasional practice in sight translation. The examination in composition in 1906-1907 will be based on the second book of Caesar's Gallic War. (2 units.)

8. ADVANCED LATIN. For the requirements of Advanced Latin the ability to translate at sight simple portions of Cicero's orations and Vergil's Aeneid is necessary, familiarity with the principles of the Latin hexameter, and the ability to translate a passage of connected English based on Cicero. These attainments can be secured from the careful study of six of Cicero's orations and six books of Vergil's Aeneid, together with very thorough drill in daily oral or written composition. It is expected that a certified composition book will be presented for entrance credit. The examination in composition in 1906-1907 will be based on the oration Pro Archia. (2 units; without the composition, 1 unit.)

9. GREEK. (a) Grammar and Lessons; Anabasis, book I-III; prose composition. (2 units.)

(b) Anabasis, book IV; Iliad, books I-III; prose composition; sight reading; review of the Grammar. (1 unit.)

10. GERMAN. A knowledge of the inflections of articles, nouns, adjectives, pronouns, weak verbs and usual strong verbs; also of the use of the modal auxiliaries, the common prepositions, the simpler uses of the subjunctive, and the order of words; the reading and translation of stories and plays, such as Storm's *Immensee* and Benedix's *Der Prozess*; translation of easy English into German, translation at hearing, and pronunciation. (2 units.)

11. FRENCH. A knowledge of the essentials of grammar, including the inflections of nouns, adjectives, pronouns, regular and common irregular verbs; the use of personal pronouns and the elementary rules of syntax; ability to pronounce accurately and to read smoothly; translation of modern stories and plays, such as About's *Le Roi des Montagues* and Labiche and Martin's *Le Voyage de M. Perrichon*; translation at hearing and at sight; translation of easy English into French. (2 units.)

12. SPANISH. Grammar, Garner, Monsanto or De Tornos; reading from Matzke's Spanish Readings, Knapp's Spanish

Readings, Pepita Jiminez; translation of easy English into Spanish, and simple conversation in Spanish. Special importance attached to a knowledge of Spanish verbs. (2 units.)

13. MEDIAEVAL AND MODERN HISTORY. Myers, or an equivalent. (1 unit.)

14. ENGLISH LITERATURE. Gray's *Elegy and Bard*; Wordsworth's *Tintern Abbey*, *Ode on Intimations of Immortality*, *Ode to Duty*; Keats's *Eve of St. Agnes* and *Ode to a Nightingale*; Milton's *Comus*, *Lycidas*, and *Selected Sonnets*; Burke's *Speech on Conciliation*; Shakespeare's *Macbeth*; Webster's *Reply to Hayne* (with rapid reading of Hayne's speech); Shelley's *Cloud* and *Ode to a Skylark*; Browning's *Andrea del Sarto*, *Abl Vogler*, and *Rabbi Ben Ezra*,—together with a similar number of other classics, such as may be acceptable to the Department of English. (2 units.)

15. (a) ADVANCED ALGEBRA. This should include the following subjects: Mathematical induction; the proof and the use of the remainder and the factor theorem; the binomial theorem for a positive integral exponent; evolution, including the extraction of any root of algebraic polynomials, and also of arithmetic numbers; theory of exponents; complex numbers; radicals, and irrational equations; theory of quadratic equations; simultaneous quadratics; inequalities; ratio, proportion and variation; arithmetic, geometric and harmonic series. Emphasis should be placed on the solution of equations by factoring, and on the demonstration of laws and principles. (1 unit.)

(b) SOLID GEOMETRY and TRIGONOMETRY. The fundamental propositions of solid geometry and especially those of spherical geometry; the development of the general formulae of elementary plane trigonometry; the theory of logarithms and the use of logarithmic tables; the numerical solution of plane triangles, and of simple problems in heights and distances. (1 unit.)

16. BOTANY. A study in the laboratory and field of types of plant groups. Drawings and notes made directly from the specimens must be submitted as evidence of the character of the work done. A full year's work. (1 unit.)

17. ZOOLOGY. One year's work on the structure, relation-

ship and habits of animals. Laboratory note-books with drawings will be required. (1 unit.)

18. **PHYSIOLOGY.** An equivalent of Martin's Human Body, —Shorter course. (1 unit.)

19. **CHEMISTRY.** Laboratory and text-book work for one school year, such as outlined in Remsen's Introduction to the Study of Chemistry, or Newell's Experimental Chemistry. At least four hours per week throughout the year is required in actual laboratory practice in order to complete the amount of laboratory work desired. (1 unit.)

NOTE.—Candidates who offer subjects in Science will be required to present their note-books in the same.

II.—Admission to Advanced Standing

Students from other institutions of recognized collegiate rank may be admitted to such standing and upon such terms as the Faculty may deem equitable, upon presentation of letters of honorable dismissal. Every such candidate is required to present a catalogue of the institution in which he has studied, with a full statement, duly certified, of the studies he has completed, including studies passed at entrance as well as those credited. The Faculty reserves the right to determine the amount of credit to be given a student upon his certificate, after a test of at least one semester.

Students offering for college credit subjects pursued in a preparatory school which are deemed the equivalent of certain subjects in the college curriculum, as, for example, trigonometry, must pass a satisfactory examination in the same before they may receive credit therefor toward the one hundred twenty hours required for a degree.

III.—Admission as Special Students

Persons who are matured and who wish to devote their time to special work in one department, or in one subject, with its related branches, may be admitted as special students. They are not candidates for a degree, but may become so by satisfying the entrance requirements for a regular course. Special students are subject to the same regulations as regular undergraduates,

and failure to maintain a good standing will work forfeiture of their privileges.

Special students, on leaving the College, will be granted letters of dismissal certifying the studies they have pursued, and their recorded grades.

STANDING AND GRADUATION

Registration

On the first day of each semester, which is Registration Day, each student must register at the Registrar's office, and must secure a *study card* for selection of studies for the semester. This card, properly filled out and approved by the Registrar, must be filed in the office not later than one week from Registration Day; but late study cards will be accepted upon payment of a special fee of one dollar. A student desiring to enter any class must present his study card to the instructor for enrollment.

Students entering for the first time should present their credentials to the Registrar for credit and entry; otherwise they will be required to pass examinations in the subjects necessary for admission to the class desired. In the choice of studies, all work necessary to remove conditions must be provided for first; and *required* studies should take precedence of elective studies.

Graduation

The Degree of Bachelor of Arts

The College of Liberal Arts now offers as many courses from which the student may elect as there are departments in which a major is offered.

Each course the student may pursue is designed to give a liberal education and leads to the degree of Bachelor of Arts (A.B.)

The student may complete one hundred twenty semester hours of college work, and also the requirements in physical education. The one hundred twenty hours include the *required studies* and a *major* in one department.

A semester-hour means one exercise a week throughout a

semester. It is intended that each hour of credit shall represent, for the average student, one hour of recitation or lecture, and two hours of preparation or subsequent reading per week, or an equivalent amount of work in laboratory courses.

Fifteen hours per week of recitations or lectures, or their equivalent in laboratory work, constitute an average semester's work. Students may register for as few as *thirteen* or as many as *eighteen* hours by making application to the Registrar.

The Degree of Bachelor of Arts and the Degree of Doctor of Medicine

A credit of thirty (30) to sixty (60) hours will be granted on the course leading to the degree of Bachelor of Arts (A.B.) in the College of Liberal Arts on completion of the Medical course of the University. The degree will be conferred at the close of the College year in which the medical degree is granted.

The number of hours credit will be determined by the character of the work done by the student.

The applicant must have completed a minimum of eighteen hours work in the College of Liberal Arts of this University.

He must meet the conditions as to required studies in the College of Liberal Arts.

He must matriculate at the College of Liberal Arts for two years.

The regulations for the current year shall prevail concerning fees.

Required Studies

In all the courses in which the student is a candidate for the bachelor's degree he must complete work as follows:

ENGLISH, one year, four hours.

SCIENCE, one year, eight or ten hours. (The course elected may be in Chemistry, Zoology, Physics or Botany.)

MATHEMATICS, one year, six hours.

PHILOSOPHY, one year, six hours.

LANGUAGE, two years, fourteen hours. (The course elected may be in Latin, Greek, German, French or Spanish.)

The Freshman year should be devoted to the completion of thirty hours of these *required* subjects.

Major Subject

Each undergraduate student must select the work of some one department as his *major* subject. The selection may well be deferred until the beginning of the second year. The requirements for major work are stated under the courses of instruction in the departments in which a major is offered.

The major subject may be changed with the approval of the professors of the old and new subjects, provided the student is able to meet the requirements of the new major.

Elective Studies

All of the remaining work required for graduation is elective. The professor in charge of the major subject selected by any student, together with the President of the University, act as advisers to the student in the selection of such subjects as will bear some useful relation to the course he is pursuing.

Classification of Students

Students who have no entrance conditions, and who have completed twenty-four semester-hours of the Freshman year, will be classed as Sophomores.

Those who have completed the work required for the Freshman year, and twenty-four semester-hours of the Sophomore year, will be classed as Juniors.

Those who have completed eighty-eight semester-hours will be classed as Seniors.

Students who have completed one hundred and twenty semester-hours, including all *required* work, and a *major* in one department, will be entitled to receive the degree of Bachelor of Arts.

Absence from Exercises

1. Excuse must be rendered for all absences from required exercises.

2. A student who is absent during a semester from more than one-tenth of the whole number of recitations of laboratory periods held in any subject shall be required to pass a special examination in that subject.

3. A student who is absent from more than one-sixth of the whole number of recitations or laboratory periods held during a semester in any subject shall have his registration in that subject canceled. If, however, a student whose registration has been canceled can show sufficient cause for his absence, and if his previous standing be such as to indicate that he can make up his loss and maintain a suitable quality of work in the subject, he may have his registration restored by presenting his case to the Faculty.

In applying this rule absence from the first or last recitation in a study, or consecutive absences in which either the first or last recitation is included, will be counted each as two absences.

4. Students are required to attend a minimum of three-fourths of all chapel exercises.

Examinations and Grades

At the close of each semester the regular examinations are held in the study of the semester. After the examinations a report is sent to the parent or guardian of each student, giving his standing in his studies for the semester. The general character of the work of each student in each study is indicated by his assignment to one of six grades,—grade A denoting the highest excellence, and grade F, failure to pass.

A student whose work in a subject is marked conditioned or incomplete is delinquent in that subject. Such delinquency must be made up, in such manner as the instructor may determine, before the close of the semester next after that in which the delinquency occurs. If the delinquency be not thus made up, the student will be required to take the subject again with a class before he may receive credit for the same. A grade F may be removed only by taking the subject in class again.

The co-operation of parents with the Faculty is earnestly solicited, in their efforts to maintain a high standard of scholarship and deportment, and to promote the welfare of all entrusted to their care.

Master's Degree

The degree of Master of Arts (A.M.) is conferred upon graduates of the College of Liberal Arts of the University and upon

others who have had an equivalent training elsewhere on completion of an approved course of graduate study equivalent to thirty semester hours.

Candidates who pursue this advanced study in residence at the University may receive the degree as early as one year after graduation. Those who do not pursue the study in residence may receive the degree not earlier than two years after graduation.

At least sixteen semester-hours of the work offered for the Master's degree must be chosen from one department, in which the candidate has previously completed the undergraduate *major* work, or an equivalent. This advanced work will be the *major* subject. Six semester hours must be taken in some department other than the major. This will be the *minor* subject. The remainder of the work may be chosen from any department approved by the Faculty.

The Master's degree may designate the special course pursued—e. g., Master of Arts in Science.

Resident candidates must register not later than the first Tuesday in October next preceding the date of the final examination. Non-resident candidates must register one year earlier.

A thesis embodying the results of investigation on an approved subject in the major department must be submitted and be approved by the major professor before the candidate may be recommended for a degree.

The subject for the thesis must be submitted to the Faculty for approval through the major professor not later than January 10, and the completed thesis not later than the last Saturday in May, of the year in which the degree is desired. The thesis must be typewritten on paper 8x10 inches in size, and a copy of the same deposited in the Library.

Upon students who complete the course in the College of Medicine of the University after receiving the Bachelor's degree from the College of Liberal Arts or other institutions approved by the College, the degree of Master of Arts will be conferred on the following conditions:

1. A candidate for the degree of Master of Arts who is at the same time pursuing the regular course in the College of Medicine must matriculate in the College of Liberal Arts at least

two years before receiving the Master's degree. The degree of Master of Arts may then be granted at the same time the candidate receives the degree of Doctor of Medicine.

2. The candidate's research work must be planned in conjunction with the Committee on Graduate Study in the College of Liberal Arts.

Reports of progress in the research work shall be made at such times as may seem advisable to the Committee. The results of such work must be embodied in a thesis approved by the Committee on Graduate Study.

3. The regulations of the College of Liberal Arts for the current year shall prevail concerning fees and thesis.

EXPENSES

Graduate Study

The charges in the Treasurer's bill are as follows:

Tuition, per semester, payable in advance	\$35.00
Registration fee (included in the above)	10.00
Diploma fee	10.00

Students who have received the Bachelor's degree from the University of Southern California will pay only registration and diploma fees.

Non-resident students will pay fifty dollars tuition for the course.

Undergraduate Study

Tuition, per semester, payable in advance	\$35.00
Tuition for six to ten hours	25.00
Tuition for fewer than six hours.	17.00
(Gymnasium fee, and instruction in physical education included in the above.)	
Gymnasium fee, and instruction in physical education taken without other studies	6.00
Registration fee, included in the above but not subject to rebate	5.00
Diploma fee	5.00

Laboratory fee, per semester:

General Chemistry	\$ 7.00
Analytical Chemistry	7.00
Quantitative Chemistry	7.00
Assaying	30.00 to 50.00
Advanced Physics	4.00 to 10.00
General Zoology	4.00
General Botany	4.00
Advanced Physiology	3.00
Bacteriology	4.00

An account is kept of breakage and an additional charge made therefor.

An additional deposit of \$5.00 to cover breakage, is required in Chemistry. This deposit, less cost of breakage, is refunded at the end of the semester.

Students who are recommended by a quarterly conference as acceptable candidates for the ministry; young women who are recommended for the work of deaconess by a quarterly conference and by the Conference Board of Deaconesses; and the sons and daughters of ministers in the regular work of any evangelical denomination, may have their tuition fee reduced to one-half the regular rate.

A discount of ten per cent. will be allowed on the *second* semester, when the tuition fees for the whole year are paid in advance; also a discount of ten per cent. when two or more students enter from the same family.

No rebate will be allowed for absence of less than half a semester.

Board and furnished rooms can be secured in private families at from three dollars to five dollars per week. Furnished rooms accommodating two students cost from four to eight dollars per month.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

COURSES OF INSTRUCTION

BIBLE

PROFESSOR FRANK G. H. STEVENS.

I. THE PENTATEUCH AND HISTORICAL BOOKS OF THE OLD TESTAMENT. Ethnic Cosmogonies; Semitic Tradition; Hebrew Archaeology; Comparative Ethics; Politics and Religion. *One hour, both semesters.*

II. THE PROPHETIC AND WISDOM BOOKS OF THE OLD TESTAMENT. Literary forms; connection of Israel's history with that of contemporary nations; Messianic prophecy and other relevant topics. *One hour, both semesters.*

III. THE GOSPEL HISTORY. The social, political and religious life of the opening of the Christian era; the supernatural in the person and ministry of Christ; Christian Ethics. *One hour, both semesters.*

IV. THE APOSTOLIC HISTORY AND LITERATURE. Questions that agitate the Apostolic Church in conflict with Judaism, the Roman Government, and current systems of Philosophy. *One hour, both semesters.*

V. A GENERAL VIEW OF THE BIBLE. A course of lectures by prominent gentlemen of Los Angeles and vicinity before the students of the College. These lectures will treat of the archaeological, historical, prophetic, ethical, religious, literary, musical, legal, and other phases of the Bible.

BIOLOGY

PROFESSOR ALBERT B. ULREY.

ASSISTANT PROFESSOR NELLIE LANCASTER (*Zoology*)

ASSISTANT PROFESSOR ————— (*Botany*)

LABORATORY ASSISTANTS, RALPH CLARK, ALTA THORNTON

The student of biology endeavors to know animals and plants as complete, living organisms; the structure and functions of the parts; the development and life-habits; their action on environment and their modification by environment; their likenesses and differences.

This study of the laws of life by actual contact with living things cultivates in the student the power of observation and analysis. It enlarges his mental horizon and gives him not only a clearer conception of plants and animals, but also a knowledge of some of the fundamental principles of society and social institutions.

Zoology

I. GENERAL ZOOLOGY. Laboratory study of representative types of invertebrate and vertebrate animals from the simplest to the most complex. A series of lectures co-ordinating the laboratory work and dealing with the general problems of biology. The course includes a study of animal structure, functions, relationships and adaptation to environment. The student receives instruction in the use of the microscope, dissecting apparatus, and is directed in the study of animals in their native environment. Eight hours laboratory work and lectures per week, throughout the year. *Four hours, both semesters.*

II. HISTOLOGY. The microscopical anatomy of animal tissues. Methods of preparation of tissue with practice in fixing, sectioning, staining and mounting for microscopical study. The structure of tissues is studied in relation to their functional activities. Laboratory work, lectures and recitations eight hours per week, one semester. Prerequisite Course I. *Four hours, one semester.*

III. EMBRYOLOGY. The general course of development of one of the higher vertebrates. Special study of the early stages of development of the organs. Embryological methods and practice in serial sectioning. The lectures deal with the general problems of embryology. Eight hours per week, one semester. Prerequisites Zoology I and II. *Four hours, one semester.*

IV. PHYSIOLOGY. Lectures, laboratory work and recitations on the activities of living organisms in general. Special study of the physiology of the human body. Eight hours per week, one semester. Prerequisites Zoology I on Botany I. *Four hours, one semester.*

V. ANATOMY OF VERTEBRATES. Dissection of some of the higher vertebrates; quizzes, recitations and lectures. The course is primarily for preparatory medical students. Eight hours per

week are required in the laboratory, one semester. Prerequisite Zoology I. *Four hours, one semester.*

VI. SYSTEMATIC ZOOLOGY. The course deals with certain groups of vertebrates with special reference to morphology and relationships. Laboratory study, field work and lectures. Six hours per week, one semester. Prerequisite Zoology I. *Three hours, one semester.*

VII. SPECIAL ZOOLOGY. Investigation of some topic of limited scope. This course is planned to meet the needs of each student prepared to pursue it. Six hours per week, throughout the year

Prerequisites Zoology I, II, III, IV and V, or their equivalent. *Three hours, both semesters.*

Botany

I. GENERAL BOTANY. The course comprises a study of typical plants representing the vegetable kingdom. The first semester is devoted to cryptograms, the second semester to spermatophytes. Laboratory study, field work and lectures. Eight hours per week, throughout the year. *Four hours, both semesters.*

II. VEGETABLE HISTOLOGY. The minute structure of the tissues of plants. Microscopical methods of preparing permanent mounts; imbedding, sectioning and staining. Laboratory work and lectures. Eight hours per week, one semester. Prerequisite Botany I. *Four hours, one semester.*

III. VEGETABLE PHYSIOLOGY. Experimental work on the physiology of plants, lectures and supplementary reading. Six hours per week, one semester. Prerequisite Botany I. *Three hours, one semester.*

IV. ECOLOGY AND TAXONOMY. A study of flowering plants (spermatophytes) in the local flora. The course deals with the relationship of plants to their environment and affinities indicated by their structure. Six hours per week, one semester. Prerequisite Botany I. *Three hours, one semester.*

General Biology

I. BACTERIOLOGY. The course consists of a study in the lab-

oratory and by means of lectures of the nature of the bacterial organism; its relation to disease, methods of cultivating and isolating non-pathogenic and pathogenic forms; inoculation experiments, staining of sections, examination of water, etc. Eight hours per week, one semester. Prerequisites Zoology I or Botany I. *Four hours, one semester.*

II. BIONOMICS. A course of lectures dealing with the general principles of biology. The problems of inheritance, development and sex are considered from the cytological standpoint throughout the first semester. Variation, heredity, selection, regeneration and kindred topics are studied during the second semester. Two hours per week, throughout the year. Prerequisites Zoology I or Botany I. *Two hours, both semesters.*

III. HYGIENE AND SANITARY SCIENCE. A course of lectures and laboratory demonstrations on (a) the improvement and preservation of health, and (b) the applications of science in the home. Open to all students. *Two hours, one semester.*

IV. NATURE STUDY. A series of lectures and lessons on the study of living objects. The course affords opportunity for the student to learn something of the more common objects of nature and how to study them profitably. Open to all students. *Two hours, one semester.*

V. EXPERIMENTAL BIOLOGY. The course consists of a series of experiments on organisms to determine their response to conditions varied from those normal to the plant or animal. (a) Variation; (b) Hybridization; (c) Regeneration. The work must be continued throughout one or two years. It may be made the basis of a graduation thesis. Prerequisite, six semesters of Zoology and Botany. *Three hours, both semesters.*

VI. BIOLOGICAL SEMINARY. Occasional meetings of the students and instructors of the department to consider reports of special investigation on certain subjects and the recent literature of biology.

Courses I in Zoology, Botany and General Biology will be offered each year. Other courses will be given as the time of the instructors will permit and the needs of the students present require them.

Medical preparatory students should elect Zoology I-V, Botany I, General Biology I and II.

For equipment, see pages 62-63.

Major Work: (a) *Zoology*, Courses I-IV and V, or VI or VII; General Biology II.

(b) *Botany*, Courses I-IV; General Biology I and II.

CHEMISTRY

PROFESSOR LAIRD JOSEPH STABLER.

ASSISTANT PROFESSOR ERWIN H. MILLER.

LABORATORY ASSISTANT, EDWARD A. HENDERSON.

Courses I, II, III and IV are prerequisites to all other courses in Chemistry.

In all laboratory courses except Course XI, a laboratory deposit of twelve dollars per semester for each course is required. Of these charges five dollars per semester, less breakage, is returnable at the end of the course. In Course XI a fee of twenty dollars is charged, and in addition a deposit of ten to thirty dollars is required to cover cost of materials consumed.

I. GENERAL INORGANIC CHEMISTRY—NON-METALS. Lectures and recitations, with illustrative experiments and study of a manual. Jones' Principles of Inorganic Chemistry. Usual prerequisite, Matriculation Chemistry. To be taken in connection with Course III. *Three hours, first semester.*

II. GENERAL INORGANIC CHEMISTRY—METALS. A continuation of Course I, together with an introduction to the study of Qualitative Analysis. To be taken in connection with Course IV. *Three hours, second semester.*

III. GENERAL INORGANIC CHEMISTRY—LABORATORY. A series of experiments illustrating the general laws of chemical action, and designed to supplement Course I and be taken in connection with it. Laboratory Guide, Alexander Smith's Outline of General Chemistry. Six hours per week in the laboratory. *Two hours, first semester.*

IV. QUALITATIVE ANALYSIS. A laboratory course in elementary qualitative analysis, with occasional lectures and reci-

tations. Prescott's Qualitative Analysis. Six hours per week in the laboratory. *Two hours, second semester.*

V. QUANTITATIVE ANALYSIS. Laboratory practice in gravimetric and volumetric determinations, with occasional lectures and recitations. Cheever-Smith's Select Methods. Nine hours per week in the laboratory. *Three hours, first semester.*

VI. ADVANCED QUALITATIVE ANALYSIS. A laboratory course involving difficult qualitative separations, and the separation and detection of some of the rare elements. Weekly lectures and discussions. Prescott and Johnson's Qualitative Chemical Analysis is recommended for reference. *Three to five hours, second semester.*

VII. ORGANIC CHEMISTRY. Lectures and recitations on the chemistry of the carbon compounds. Remsen's Organic Chemistry. *Two hours, both semesters.*

VII a. ORGANIC PREPARATIONS. A laboratory course in the preparation of typical carbon compounds. Open to students who have completed courses I, II, IV, V, and VII. *Two hours, both semesters.*

VIII. MINERAL ANALYSIS. Gravimetric and volumetric analysis of representative minerals, ores and alloys. Prerequisite, Course V. *Four or five hours, either semester.*

IX. QUANTITATIVE ANALYSIS OF AGRICULTURAL PRODUCTS. Systematic analysis of fertilizers, dairy products, etc. Prerequisite, Course V. *Four or five hours, either semester.*

X. MEDICAL CHEMISTRY. A laboratory course, including urine analysis, toxicology and food analysis. Designed especially for students looking forward to medicine or pharmacy as a career. Open to students who have completed or are taking courses V and VII. *Three hours, either semester.*

XI. ASSAYING. This course comprises silver and gold extraction by scorification and crucible methods; fire assay of copper, lead and tin, extraction of gold from ores by the amalgamation, the chlorination, the cyanide and the electrolytic processes. *Two hours, either semester.*

MAJOR WORK: Sixteen semester hours in addition to courses I-IV.

DRAWING

PROFESSOR ROSE PITCHER.

PROFESSOR ARLEY G. TOTTENHAM.

I. FREEHAND DRAWING. An elementary course of nine hours a week in drawing from casts and natural objects in charcoal. *Three hours, first semester.*

II. INSTRUMENTAL DRAWING. An elementary course of nine hours a week, including descriptive geometry, problems in line and plane, and linear perspective. *Three hours, second semester.*

III. FREEHAND DRAWING. A course in drawing from objects and life in charcoal; color, and wash drawing. Nine hours per week. Prerequisite, Course I. *Three hours, first semester.*

IV. INSTRUMENTAL DRAWING. Including isometric projection, penetration of planes and solids, graphostatics, and stereotomy. Nine hours per week. Prerequisite, Course II. *Three hours, second semester.*

V. ARCHITECTURAL DRAWING. An advanced course for students studying architecture or engineering. Nine hours per week. *Three hours, both semesters.*

ENGLISH

PROFESSOR JAMES MAIN DIXON.

ASSOCIATE PROFESSOR STELLA W. MORGAN.

A.

Rhetoric

I. WENDELL'S ENGLISH COMPOSITION, Lewis's Specimens of the Forms of Discourse. Special attention is given to themes in Exposition; and, later in the year, to style. This course is required of Freshmen. *Three hours, both semesters.*

Miss Morgan.

II. LITERARY LAWS OF JOURNALISM, with practice in writing editorials. Prerequisite, Rhetoric I. *Two hours, both semesters.*

Prof. Dixon.

III. Course in the preparation of Orations and Briefs for debate. Alden's *The Art of Debate*. *Two hours, second semester.*
Prof. Dixon.

B.

Philology

I. CHAUCER and late middle English. *Two hours, first semester.*
Miss Morgan.

II. SOURCES OF THE ENGLISH LANGUAGE, with reading in Beowulf and Caedmon. *Three hours, first semester. Two hours, second semester.*
Prof. Dixon.

C.

English Literature

I. GENERAL SURVEY OF ENGLISH LITERATURE. Newcomer's English Literature, with reports on outside reading, and semester papers. Prerequisite for elective courses. *Two hours, both semesters.*
Prof. Dixon.

II. GENERAL SURVEY OF AMERICAN LITERATURE. Bronson's Short History of American Literature, with assigned readings and reports. Special attention given to the writings of Lowell, Emerson, Hawthorne, Irving and Poe. *Two hours, second semester.*
Miss Morgan.

III. ESSAYISTS OF THE EIGHTEENTH AND NINETEENTH CENTURIES. Lectures, class-room study, assigned readings and reports. *Two hours, second semester.*
Prof. Dixon.

IV. THE SHORT-STORY. Jessup and Conby's Book of the Short Story, Cody's World's Greatest Short Stories. Lectures and class discussion. Each member of the class writes one original story. *Two hours, first semester.*
Miss Morgan.

V. THE TECHNIQUE OF THE ENGLISH NOVEL. Whitcomb's Book of the Novel with analysis of one of George Eliot's or Thackeray's works, with comparative study of other novels. Class discussions, with required reports based on critical reading. *Two hours, second semester.*
Miss Morgan.

VI. CRITICAL STUDY OF MILTON'S EPIC AND DRAMATIC POEMS. *Two hours, first semester.*
Prof. Dixon.

VII. VICTORIAN POETS. Emphasis on Wordsworth and

Tennyson, first semester; and on Browning and Arnold, second semester. *Three hours, both semesters.* Prof. Dixon.

VIII. PRE-SHAKESPEARIAN DRAMA. Manly's specimens of Pre-Shakespearian Drama, Vols. I and II. Lectures on the History of the Drama, with critical reading of plays. *Two hours, first semester.* Miss Morgan.

IX. COMPARATIVE STUDY OF THE DRAMA. Specimens of the Greek, Roman, English, French and German Drama, in English. Lectures, with critical reading. *Two hours, first semester.* (Omitted in 1906-1907.) Miss Morgan.

X. SHAKESPEARE. Critical study of six plays: As You Like It, The Tempest, Romeo and Juliet, Henry IV, Macbeth and Hamlet. *Three hours, second semester.* Miss Morgan.

XI. SEMINAR IN VERSIFICATION. *Two hours, first semester.* Prof. Dixon.

XII. SEMINAR. Methods of teaching English in Secondary Schools Carpenter, Baker and Scott's Teaching of English, with supplementary reading in Chubb's Teaching of English. Discussion of special methods in English Composition and Rhetoric, and the English classics required for admission to the University. This course is for advanced students who expect to teach English. *Two hours, first semester.* Miss Morgan.

Graduate Instruction

Special provision for graduate instruction is made to meet the wants of individual students.

FRENCH

PROFESSOR MARGARET GRAHAM BORTHWICK.

I. FRASER AND SQUAIR'S FRENCH GRAMMAR. The essentials of grammar; exercises in pronunciation, reading, translation and composition. Dumas' *La Tulipe Noire* and Labiche's *Le Voyage de Monsieur Perrichon* will be read in the second semester. *Four hours, both semesters.*

Course I is intended for students in the College who wish to begin the study of French. It covers the ground of preparatory subject II.

II. (a) MODERN FRENCH READING. Daudet, *Lettres de mon Moulin*, or *Tartarin de Tarascon*; Balzac, *Eugenie Grandet*; Super, *Readings from French History*; Victor Hugo, *Hernani*.

(b) GRAMMAR AND COMPOSITION. Frazer and Squair's *French Grammar*.

(c) PRIVATE READING of selected works, with reports.

Open to students who have completed Course I, or its equivalent, or who have credit for entrance requirement II. *Three hours, both semesters.*

III. CLASSICAL LITERATURE OF THE SEVENTEENTH CENTURY. Corneille, *Le Cid*, Horace; Racine, *Esther*; Moliere, *L'Avare*, *Les Precieuses Ridicules*. Collateral readings, dictations and short lectures on the classical literature. Open to students who have completed Course II. *Two hours, both semesters.*

IV VICTOR HUGO. Lectures in French on the life and works of Victor Hugo. Study of French rhyme and rhythm in the Classical and Romantic Schools. Reading of selections from prose and poetical works of Victor Hugo. Open to students who have completed Course III, or its equivalent. *Two hours, both semesters.*

GEOLOGY

I. GENERAL GEOLOGY.—Study of a text, with observations on rocks and fossils from museum specimens and field excursions. *Two hours, both semesters.*

II. MINERALOGY.—Laboratory work, with blow-pipe analysis and chemical tests for minerals. Lectures and readings. *Two hours, both semesters.*

GERMAN

PROFESSOR MARGARET GRAHAM BORTHWICK.

I. JOYNES-MEISSNER'S GERMAN GRAMMAR. Selected readings in German prose and poetry. Wesselhoft's *German Composition*, Parts I and II. This course includes the essentials of German grammar, with numerous exercises in composition, translation at hearing, reading of literature in the form of easy

stories and plays, with some practice in translation at sight and memorizing. *Four hours, both semesters.*

Course I is intended for students in the College who wish to begin the study of German. It covers the ground of preparatory subject 10.

- II. (a) SCHILLER. Wilhelm Tell.
 GOETHE. Hermann und Dorothea.
 LESSING. Minna von Barnhelm. Reference readings on the lines of the authors studied.
- (b) GERMAN NOVELLETTES. Rapid reading at sight and free reproduction.
 COMPOSITION AND GRAMMAR. Grammar continued from Course I. Harris' German Composition. Open to students who have completed Course I, or its equivalent, or who have credit for entrance requirement 10. *Three hours, both semesters.*

III. SCIENTIFIC AND JOURNALISTIC GERMAN. German Science Reader. Prehn's Journalistic German. Special assigned reading of scientific monographs. Exercises in composition. Open to students whose Major is in science and who have completed Course I. *Two hours, both semesters.*

IV. NINETEENTH CENTURY GERMAN. Selections from the works of Grillparzer, Ludwig and Scheffel. Open to students who have completed Course II. *Two hours, both semesters.*

GREEK

PROFESSOR FESTUS EDWARD OWEN.

A. (a) Homer's Iliad I-III. (b) Prose Composition. (c) Sight translation. Review of the Grammar. *Five hours, first semester.*

Course A is intended for students who offer only two years of Greek for entrance.

Provision will also be made for students who enter without Greek, but who wish to begin the language in college. Such students are required to do two years' work in preparation for Courses I and II.

- I. Six books of the Odyssey. Studies in Homeric Language

and Verse. Lectures on Homeric life. Sight reading. *Four hours, first semester.*

II. LYSIAS. Selected orations. Grammar and Prose Compositions. General view of Greek oratory through lectures. *Four hours, second semester.*

III. PLATO. Apology and Crito. Lectures on Greek Philosophy, and its relation to modern thought. Elective for Sophomores. *Three hours, first semester.*

IV. (a) SOPHOCLES. Antigone. Lectures on the Greek Drama and Theatre. (b) DEMOSTHENES. De Corona. Syntax and Composition. *Three hours, second semester.*

V. (a) AESCHYLUS. Agamemnon.

(b) SOPHOCLES. Aedpus Colonus.

(c) EURIPIDES. Iphigenia among the Tauri.

A careful study of the development of the Greek Drama will be made through lectures and assigned readings, together with a consideration of the place of the Drama in Greek Literature as a whole. *Three hours, both semesters.*

VI. PLATO. Gorgias, Protagoras. ARISTOPHANES.—Clouds. *Three hours both semesters.*

VII. HISTORY OF GREEK LITERATURE FROM HOMER TO THEOCRITUS.

This course consists of lectures, and recitations based on translations together with papers on assigned topics. No knowledge of Greek is required. Jebb's "Primer of Greek Literature," and Mahaffy's "Old Greek Life" will be used as general guides. The aim is to secure familiarity with the great masterpieces of Greek Literature as well as to gain a comprehensive grasp of the important facts of its history. This course is especially important to those who expect to specialize in, or to teach English Literature. Open to all students. *Two hours, both semesters.*

VIII. NEW TESTAMENT GREEK. Readings from the Gospel of St. John with special attention to word-meanings together with informal lectures on the place of Biblical Greek in the history of the Greek language. *One hour, first semester.* To be omitted in 1906-1907.

MAJOR WORK: Courses I-VI. Course VII may be substituted for VI by special permission, with added work in research

sufficient to give credit of six semester hours for the whole course.

HISTORY AND ECONOMICS

PROFESSOR JAMES HARMON HOOSE.

ASSOCIATE PROFESSOR TULLY CLEON KNOLES.

ASSISTANT PROFESSOR GILBERT W. DENISTON.

POINT OF VIEW OF THE COURSES IN HISTORY.

History is an account of ideas and institutions in movement, rather than an account of personalities and events. Ideas are thoughtful experience embodied in definitions or in documents; they change in form and content as experience varies under different conditions. Personalities are the agents who exploit ideas. Events are reactions among ideas and personalities. Institutions are ideas formulated in practice to serve the purpose of human living. Civilization is the sum total of ideas and institutions which exist at any given period of time upon any given portions of the earth—i. e., civilization is the evolution of ideas and institutions.

I. MEDIAEVAL EUROPE. From A. D. 375 to 1789. Text-books: Emerton's "Introduction to the Middle Ages;" Emerton's "Mediaeval Europe." Lectures. Pre-requisite to Courses II, III and IV. *Three hours, both semesters.* Mr. Knoles.

II. MODERN CONTINENTAL EUROPE. Selected periods, including the French Revolution, and the Organization of the German Empire. Text-books: Lowell's "Eve of the French Revolution;" Andrew's "Historical Development of Modern Europe." Lectures. *Three hours, both semesters.* Mr. Knoles.

III. ENGLISH CONSTITUTIONAL HISTORY. Text-books: Gardiner's "Student's History of England;" "Constitutional Essays," by Wakeman and Hassal; Boutmy's "English Constitution." *Three hours, both semesters.* Mr. Knoles.

IV. CONSTITUTIONAL AND INSTITUTIONAL HISTORY. Text-books: Bryce's "American Commonwealth;" Lowell's "Government and Parties in Continental Europe." *Three hours both semesters.* Professor Hoose.

V. INTERNATIONAL LAW. Text-book: Hall's International Law. *Two hours, both semesters.* Professor Hoose.

Lectures and readings accompany the recitations in each course.

MAJOR WORK: Courses I to IV, inclusive.

Economics

I. THE ELEMENTS OF ECONOMICS. A general introduction to economic study, based upon a text book, supplemented by lectures and assigned readings. *Three hours, first semester.*

II. PUBLIC FINANCE. A general course dealing with the principles of public revenue, public expenditure and financial administration. *Three hours, second semester.*

III. MONEY AND BANKING. The origin of money, its history and functions with a comparative study of leading banking systems. *Three hours, second semester.*

LATIN

PROFESSOR ROY EDWIN SCHULZ.

I. (a) CICERO. De Senectute. Careful interpretation of the text with practice in reading aloud with proper phrasing and emphasis without translation and in translation at hearing.

(b) VERGIL. Eclogues. Lectures will be given on Theocritus and his influence on Vergil, and selections from the Idylls will be read in translation. A careful review of the hexameter serves as an introduction to the prosody of Horace. *Three hours, first semester.*

II. HORACE. An attempt will be made to gain an intimate knowledge of Horace through the reading of selections from his entire works and through lectures on the Augustan Age and Horace's contemporaries. Metrical reading, style and subject matter are given special attention. *Three hours, second semester.*

III. LATIN PROSE COMPOSITION. A complete review of syntax followed by composition based on Pliny's Letters. Word-formation and synonyms studied. Sentence structure

and style. The course is strongly recommended to all registered for Courses I and II. *Two hours, both semesters.*

IV. LATIN COMEDY. During the semester at least one play of Terence and two of Plautus will be read. Special attention is given to early forms, meter, etc. Lectures on the development of Roman Comedy, and on Roman Life. *Two hours, first semester.*

V. LIVY. Books XXI and XXII. Lectures on the history and literature of the period of foreign conquest. Selections from the other books will be read as time permits. *Three hours, second semester.*

VI. CICERO. Letters. Lectures on the history of the Republic from B. C. 133 with special reference to contemporary events. *Two hours, first semester.*

VII. TACITUS. Agricola and Germania, or selections from the Annals. Lectures on the history and literature of the early empire. *Two hours, second semester.*

VIII. ADVANCED LATIN PROSE COMPOSITION. Cicero's Second Philippic is read and the composition based upon it. Writing of essays and letters in Latin. Translation of passages from English writers. The style of Cicero, Livy and Tacitus studied and compared. *One hour, both semesters.*

IX. HISTORY OF LATIN LITERATURE. Lectures on Latin Literature from Livius Andronicus to Boethius, with the interpretation of selections from all prominent authors. The course does not require a knowledge of Latin, and is open to students of all departments. *Two hours, both semesters.*

X. ROMAN PHILOSOPHY:

(a) CICERO. Selections from his philosophical works.

(b) LUCRETIUS. De Rerum Natura. Selections.

Lectures on the development of Greek and Roman Philosophy. *Two hours, first semester.*

XI. LATIN ELEGIAC POETRY. Catullus, Ovid, Propertius and Tibullus. Selections. Studied largely with reference to thought and artistic form. *Two hours, second semester.*

XII. TEACHER'S COURSE. Lectures on the Pedagogical Value of Latin, the work of the four years in the secondary school, the place of Composition, Prosody, History, etc., in the

study of Latin. Visiting and reports from secondary schools in the vicinity of Los Angeles. Practice in teaching in the preparatory school of the University. Prerequisite, Philosophy I.

Open to Juniors and Seniors. *Two hours, first semester.*

MAJOR WORK: Thirty semester hours, including III, VIII and IX.

MATHEMATICS

PROFESSOR PAUL ARNOLD.

I. ALGEBRA. Lecture and Text-book course. Mathematical induction, equivalent equations, surds and complex numbers, theory of quadratic equations, simultaneous quadratic and higher equations, ratio, proportion, variation, the progressions and other simple series, inequalities, permutations and combinations, the binomial theorem for any exponent, limits and infinite series, determinants, theory of equations.

In the lectures a careful study of the theory and development of Algebra from the very beginning is taken up, and proofs are given of all the fundamental laws. *Two hours, both semesters.*

II. SOLID AND SPHERICAL GEOMETRY.—The fundamental propositions of the Euclidean geometry of space. *Three hours, first semester.*

III. TRIGONOMETRY.—Plane trigonometry and its applications, the trigonometry of the right spherical triangle, and logarithms. *Three hours, second semester.*

IV. PLANE ANALYTIC GEOMETRY.—The analytic geometry of the straight line, the circle, and the conic sections, including a discussion of the general equation of the second degree, and some special examples in higher loci. *Three hours, first semester.*

V. DIFFERENTIAL CALCULUS.—Development of the fundamental principles and formulas, applications to various problems in geometry and analysis. *Three hours, second semester.*

VI. DIFFERENTIAL AND INTEGRAL CALCULUS.—Advanced course. *Three hours, both semesters.*

VII. DIFFERENTIAL EQUATIONS.—*Three hours, both semesters.*

VIII. CONTINUOUS GROUPS.—Based on the lectures of Sophus Lie. *Two hours, both semesters.*

IX. DESCRIPTIVE ASTRONOMY.—A general course, requiring only the mathematics of Courses I-III. Open to students in the last two years of the college course. *Two hours, both semesters.*

X. SURVEYING.—An elementary course consisting of two hours of recitation and six hours of field practice with instruments. *Two hours, both semesters.*

MAJOR WORK: Twenty-four semester hours.

MUSIC

DEAN WALTER FISHER SKEELE.

Students who take harmony and theory, or advanced instrumental or vocal work in the College of Music may be allowed college credit for the same, but the credit shall in no case exceed eight semester hours, and will be given only upon the recommendation of the Dean of the College of Music.

ORATORY

PROFESSOR BEULAH WRIGHT

I. VOCAL EXPRESSION:

(a) Lectures, and practice in voice building and tone placing. Expression of the body. Interpretation of literature from the Text. *Two hours, first semester.*

(b) Advanced vocal training and interpretation from modern authors. Kipling, Van Dyke, Stevenson, Maclaren and others. *Two hours, second semester.*

II. PUBLIC SPEAKING.—Extemporaneous work. Preparation and delivery of short speeches, such as talks on current public questions, toasts, and after-dinner speeches. Debate. *Two hours, both semesters.*

III. ORATORY.—A study of masterpieces of oratory. Sears' History of Oratory and Modern Eloquence. The preparation and delivery of one original oration. Bible and Hymn Reading. Curry's Vocal and Literary Interpretation of the Bible. *Two hours, both semesters.*

IV. VOCAL INTERPRETATION:

(a) Lyric Poems. Training of the Imagination. Studies in Tennyson, Burns, Browning, Wordsworth and others. *Two hours, first semester.*

(b) Shakespeare: Julius Caesar or Hamlet; As You Like It or Much Ado About Nothing. *Two hours, second semester.*

Provision is made for a special class in the principles of Expression, for those students who enter the college without the required Preparatory School work.

This is an elementary course of two hours for one semester; no college credit will be allowed for it.

Students elect the above courses at their expense. (See College of Oratory).

PHILOSOPHY

PROFESSOR JAMES HARMON HOOSE.

I. PSYCHOLOGY.—The aim in this subject is to acquaint the student with what is valuable in the investigations in Mental Science. Text-books, lectures, and original investigations. Prerequisite to Courses III, IV, V, VI, VII, and VIII. This course is the *required* work in Philosophy. *Three hours, both semesters.*

II. LOGIC.—The elements in this subject are given in Jevons' Logic, with practical exercises. *Two hours, first semester.*

III. PEDAGOGY.—Investigating the psychology of the Act of Learning and of the Science and Art of Teaching. Readings and lectures. *Two hours, second semester.*

IV. ETHICS.—A study of ethical principles from the ordinary philosophic standpoints. *Two hours, first semester.*

V. THEISM.—A study of the subject as given in Iverach. Lectures. *Two hours, second semester.*

VI. HISTORY OF PHILOSOPHY.—Weber's History of Philosophy, and Ueberweg's History of Philosophy, covering the ancient Greek Philosophy. Prerequisite for Course VII. *Three hours, first semester.*

VII. HISTORY OF PHILOSOPHY.—Modern Philosophy, with

readings from the more important philosophers. Prerequisite for Course VIII. *Three hours, second semester.*

VIII. METAPHYSICS.—Lectures, readings and dissertations. Prerequisite, Course I. *Two hours, second semester.*

IX. CHRISTIAN EVIDENCES.—A critical study of the foundations of Christianity. Butler, Fisher and Wright. *Two hours, first semester.*

MAJOR WORK: Courses I to VIII, inclusive.

PHYSICAL EDUCATION

PROFESSOR HARVEY R. HOLMES.

ELSIE VANDERPOOL, DIRECTOR OF WOMEN'S GYMNASIUM.

GERTRUDE COMSTOCK, DIRECTOR OF OUTDOOR SPORT FOR WOMEN.

I. Systematic class work in gymnastics for men. The work consists of vigorous drill with dumb-bells, Indian clubs, and wands, besides progressive graded work on the various pieces of gymnastic apparatus. Required of all first year students. *One hour, both semesters.* Professor Holmes.

II. An advanced course for men combining light and heavy gymnastics. Required of all second year students. *One hour, both semesters.* Professor Holmes.

III. Out door sports and light gymnastics for women; tennis, basket ball, volley ball, light work on the ladies' athletic field; recreative games and simple use of apparatus. *One hour, both semesters.* Miss Comstock.

IV. An advanced course for women. Advanced exercises with chest weights, dumb-bells, Indian-clubs, ladders and rings. Difficult free work with rhythmical drills for grace and harmony of movement. Required of all second year students. *One hour, both semesters.* Miss Vanderpool.

PHYSICS AND ELECTRICAL ENGINEERING

PROFESSOR GEORGE S. BEANE.

LABORATORY ASSISTANT, F. R. BROWN

Instruction in Physics is given by means of lecture, text and

laboratory exercises. A good collection of lecture room apparatus is possessed by the department so that experimental demonstrations can be given of all important phenomena. There is also a good working Departmental library besides standard works in the General Library of the University.

The courses provide instruction for those who desire to pursue the subject as pure science or for those who are looking forward to the engineering profession.

Courses I, II, and III, are fundamental and prerequisite to all other courses. In these the student learns the use of standard instruments and becomes acquainted with methods. For students in engineering, courses in Photometry, Calibration of Instruments. Testing of Direct Current, Alternating and Polyphase Machinery. (See Laboratory equipment.)

Every encouragement is given the students to carry on the work of investigation. The spirit of scientific enquiry is stimulated. In connection with laboratory work courses of reading are indicated.

A—Course for Undergraduates

I. MECHANICS.—Lectures, Texts and Laboratory work. Open to all who have completed entrance requirements. *Three hours, first semester.*

II. HEAT, SOUND AND LIGHT.—Presented as a continuation of Physics I. *Three hours, second semester.*

III. ELECTRICITY AND MAGNETISM.—Lectures and Laboratory work in the theory and practice of Electrical measurement. Prerequisite, Physics I. *Three hours, first semester.*

B—Primarily for Undergraduates but open to Graduates

IV. LIGHT.—Theoretical and Experimental. Lectures and reading from standard authors with much experimental work. A good working knowledge of mathematics is required. *Three hours, alternates with Physics V.*

V. HEAT AND THERMODYNAMICS.—An advanced course. Same prerequisite as Physics IV.

VI. ELECTRICAL MEASUREMENTS.—A practical course in which theory and methods of exact electrical determinations are studied including use of Ballistic Galvanometer, and con-

densers and the measurement of induced currents and permeability. *Four hours, either semester.*

VII. MEASUREMENTS AND DETERMINATION OF CONSTANTS. Three or more hours *each week.*

(Courses VIII to X, are technical, intended for electrical engineers, but may be elected by those regularly pursuing course in Physics.)

VIII. DIRECT CURRENT PRINCIPLES AND MACHINERY.—The theory of Direct Current. Fundamental types of Direct Current Generators and Motors. Based on Sheldon's Dynamo Electrical Machinery. Prerequisite, Physics III.

IX. ALTERNATING CURRENT THEORY AND MACHINERY. A careful consideration of principles involved in alternating current phenomena. General types of alternating generators and motors. Prerequisite, Physics, VI.

X. DYNAMO LABORATORY.—D. C. and A. C. apparatus, operation, efficiency, curve plotting, etc.

C—Primarily for Graduates

XI. EXPERIMENTAL PHYSICS.—The exact determination of some of the important standard experiments.

XII. GENERAL PHYSICS.—Theoretical and practical study of some particular group of Phenomena or Laws. This will consist of a critical study of the Literature of the subject as well as experimental work.

XIII. THESIS.—In all cases where Physics is pursued as a major subject for an advanced degree a thesis will be required. While this will be critisized primarily as to the subject matter it must also be commendable as a piece of literary work.

SPANISH

PROFESSOR KATHERINE T. FORRESTER.

I. ELEMENTARY SPANISH.—Hills and Ford Spanish Grammar; Worman's Readers; Cuentos Castellanos; Galdos' Electra; Valera's Pepita Jimenez. *Four hours, both semesters.*

II. SPANISH READING, WRITING AND CONVERSATION.—Review of Grammar, Text-book, Hills and Ford's; Moratin's El Si de las Ninas; Galdos' Marianela; Alarcon's El Capitan Veneno.

Open to students who have completed Course I, or its equivalent. *Three hours, both semesters.*

III. HISTORY OF SPANISH LITERATURE.—D. Antonio Gil de Zarate's History of Spanish Literature, or Butler Clarke's Spanish Literature. Sketches of authors and literary periods written in Spanish by students. Illustrative Readings. *Two hours, both semesters.*

IV. ADVANCED SPANISH COMPOSITION.—Ramsey and Lewis Progressive Exercises in Spanish Prose Composition. *One hour, both semesters.*

GENERAL INFORMATION

The College of Liberal Arts of the University of Southern California is situated in Los Angeles, about three and one-half miles southwest from the business section of the city. The College buildings are accessible by three lines of street cars, the Main Street, University and L. A. Interurban lines. This is one of the most beautiful and rapidly growing residence portions of Los Angeles. The campus, comprising ten acres, has been improved by cement sidewalks and street grading on all sides, and a lawn in front of the main building. The University Methodist Episcopal Church is located near the campus, and is one of the most prosperous churches in the city. The Baptists and Presbyterians also have churches in the near vicinity. These advantages, together with fine public school privileges, make the University section of the city a very desirable place of residence for families seeking educational opportunities.

Religious Privileges

The moral atmosphere surrounding the student is exceptionally good. The Young Men's Christian Association and the Young Women's Christian Association are active and effective in social and religious life.

The students maintain a regular prayer service in the College Chapel, and also a daily noon-day prayer meeting. These, with the regular chapel service, constitute a good Christian atmosphere in which to lay the foundation of character. Students are expected to attend some Church each Sabbath, and are advised to join some Sunday class for the study of the Bible.

The University provides, during the College year, a free course of lectures dealing largely with biblical subjects.

Literary Societies

The Aristotelian Literary Society is the oldest of the societies connected with the College. It is a society for young men and has a large and well furnished hall in which to hold its meetings. It is in a flourishing condition and has many influential alumni.

The Athena and Clionian Societies are for young women. They have finely furnished halls, and are doing excellent work.

Library and Reading Room

The library is large and well lighted, carpeted, and furnished with shelving sufficient to hold about ten thousand volumes, with new tables and chairs for the convenience of the students. The number of volumes actually accessioned, public documents, and pamphlets is nine thousand three hundred and forty-two. The largest recent addition to the library is the "Dean George Cochran, D. D. Memorial Library" placed in the University by his son, George I. Cochran. Several hundred volumes chosen with especial care to meet the needs of the various departments of the University have been ordered as a beginning to this collection.

The Museum

An extensive collection of specimens in mineralogy and geology has been accumulated during the past years, by donations and purchase. Professor Dickinson, the first curator, opened the museum and classified it, making many donations from his own excellent private collection.

A few years ago the trustees purchased from Dr. Stephen Bowers a large collection of geological, mineralogical, and archaeological subjects.

The Rev. C. R. Pattee, D. D., has donated about five hundred species of West Coast shells, a valuable geological, paleontological, mineralogical and conchological collection.

Physical Laboratories

The department of Physics has excellent and commodious Laboratories on the first and third floors of the new South wing of the College of Liberal Arts.

There are two large general Laboratories besides several smaller ones for special subjects and advanced students. Each has water, gas, direct and alternating currents.

The equipment is of recent purchase, modern and best quality. The apparatus for General Physics is very complete and equal to that of the best American Universities. For advanced work there are several fine pieces of apparatus in Heat and Light. In the departments of Mechanics and Electricity there is ample equipment for advanced work of high order both for undergraduates and graduate courses.

The Chemical Laboratory

The department of Chemistry occupies the second floor of the new south wing of the main building. The laboratory for general chemistry will accommodate eighty students; that for quantitative chemistry twenty-two students; that for organic chemistry twenty students. The laboratories are thoroughly equipped with modern laboratory tables, water, gas, apparatus, and chemicals; they contain a large number of hoods and all of the conveniences of a modern laboratory. The balance room is a separate room well-lighted and equipped with twelve fine analytical balances. The store-room is accessible from the different working laboratories and is supplied with a large quantity of apparatus and chemicals of the best make. A special research laboratory accommodating twenty-five students is thoroughly equipped in the basement with storage batteries for electro-chemistry, also with combustion apparatus and special apparatus for determining molecular weight. The laboratory is also equipped for investigations on oil and gas. The equipment consists of stills, hydrometers, viscometers, Atwater's bomb calorimeters for heat determination, Junker's patent gas calorimeters, Hempel's gas apparatus, Elliot's sulphur apparatus and a thermo-electric pyrometer.

Assay and Metallurgical Laboratory

This laboratory occupies a large room in the basement. The equipment consists of rock crushers, ore grinders of several kinds, amalgamating fans, etc., all driven by electricity. The furnaces are of the latest type, using gas for fuel. The equipment includes all the necessary apparatus for all kinds of assay

work. The equipment includes apparatus for concentration and amalgamation tests as well as a complete cyanide and chlorination plant. Special facilities are afforded for the electrolytic-reduction processes. The laboratory is modern in every detail.

The Biological Laboratories

The entire second floor of the new north wing of the main building is devoted to the biological laboratories and lecture room. The laboratories are so planned that each student has abundant light, 110 feet of desks face immediately to the north. Each student is supplied with a heavy single desk of slash grained pine, containing two drawers and microscope locker each with Craig combination locks.

THE ZOOLOGICAL LABORATORY, 34x45 feet, contains now forty-seven single desks and a large demonstration table 4x11 feet with drawers and cupboards on each side for supplies. The laboratory is provided with black board, glass cases for books, reagents and specimens; a sink, aquarium and drip for keeping living specimens. Each student is furnished a compound microscope, BA 2 or BB 2, dissecting instruments and necessary materials for dissection and study.

THE BOTANICAL LABORATORY is thirty by forty-five feet. It contains forty-four single desks with drawers, locker and Craig combination locks for each; a large demonstration table; cases for twenty thousand herbarium specimens, books and supplies; black boards, sink, aquarium and drip. A compound microscope, dissecting instruments and materials are furnished each student.

THE LABORATORY FOR BACTERIOLOGY AND PHYSIOLOGY is 29x46 feet, facing the north. It is supplied with autoclav, arnold and hot air sterilizers, incubators, glassware and all other necessary equipments for work in bacteriology. There are thirty-one single desks in this laboratory, a large demonstration table, two hoods and cooling chamber, sink, tank, tables, cupboards and cases for reagents and supplies. All the necessary materials, apparatus and instruments including BB 8 Bausch and Lomb microscopes are furnished the student.

For Physiology the laboratory is supplied with all the necessary reagents and apparatus such as microscope, haemocytometer, dissecting instruments, etc., for successful laboratory work. For Histology and Embryology the student is supplied with BB 8 microscope and has the use of the Minot automatic rotary microtome, Bausch and Lomb's automatic laboratory microtome, and all reagents necessary to carry on successfully this work.

The research laboratory, 15x17 feet, adjoins the office of the department which is also 15x17 feet. The equipment of these rooms is such as adapts them to advanced work along special lines. The best microscopes of German and American make are available, including Bausch and Lomb, CC 8, Zeiss IIa, with achromatic and a set of apo-chromatic objectives with compensating eye pieces. Other microscopes of the Leitz and Spencer types, also imbedding baths, centrifuge, camera, numerous microscope accessories and instruments are provided.

The lecture room is 32x36 feet with raised seats. It has a seating capacity of about two hundred and is provided with sky light and fitted with screens for darkening to adapt it to the use of the electric projection apparatus and stereopticon which form part of the equipment. The lecture desk which is fitted with drawers and cupboards can be adjusted instantly for gas or water for demonstration purposes. This room as well as all others is well supplied with electric lights.

The wide halls have been provided with glass cases in which are placed a large collection of birds, mollusks and alcoholic specimens for demonstration and study. The collection of mollusks is very complete, representing over eighteen thousand specimens.

Athletics and Physical Culture

The Faculty of the College of Liberal Arts, recognizing that physical culture is both hygienic and educative, desires to encourage every reasonable effort in the direction of physical development consistent with strong manhood and womanhood. On its hygienic side it should aid the body in all its functions, develop a symmetrical form, correct deformity as far as possible,

and afford recreation. In its educative function it should afford the discipline necessary for self-control, both mental and moral.

Gymnasium and Athletic Grounds

Athletic sports are encouraged for their value in developing the body, in furnishing a means of pleasant recreation, as well as a source of social and ethical culture, and in cultivating the spirit of co-operative enterprise.

The gymnasium has been fitted with appliances for the proper development of the body. The necessary apparatus of the newest and most approved designs has been provided. The Director has made preparations for the training in the gymnasium of both the young men and young women, who will have separate lockers and baths and use the building at different periods of the day. The students have all the advantages of the gymnasium, with baths, lockers and dressing room accommodations.

A complete equipment is provided for each form of exercise. Galleries will afford audience room for special gymnastic exercises when such are open to the public.

A commodious athletic field of several acres affords abundant room for out-door exercises. The Athletic Director, in connection with the President of the University, has control of the athletic grounds, games, and sports of the University, and has laid out fields for basket-ball, volley-ball, baseball, and football, the last named field being encircled by a one-fourth mile cinder running track. There are also several tennis courts.

All the work of the Department of Physical Education, and Athletics will be under the supervision of Professor Harvey R. Holmes, Ph. B.

Each student, on entering the department, undergoes a thorough physical examination, in order that his physical condition may be known to the Director, and suitable exercise prescribed. Various strength tests and measurements are given; the heart, lungs, and eyes are examined, and the utmost caution used in the advice given regarding individual exercise. One examination during each semester is required, the latter demonstrating any improvement or change in the student's physical condition. Anthropometric cards and charts are plotted for students when desired.

Systematic class work in gymnastics is required on two days

of the week, of all Freshmen and Sophomores. This work consists of vigorous drill with dumb-bells, clubs, bar-bells, etc., besides progressive graded work on the various pieces of gymnastic apparatus, and gymnastic games, always under the careful supervision of the Director.

During the second semester lectures on the physiology of exercise, personal hygiene, health culture, etc., are given to the college students. These lectures are illustrated by various charts, lantern slides, etc., and take the place of the regular gymnasium classes on the days when the lectures are given.

Athletic Contests

All athletic and team contests are under close supervision of the Director and no student is permitted to compete in games or contests whose physical examination shows that he or she is unfit.

Any person who desires to enter athletic contests must attain a certain standard of scholarship before being permitted to participate.

There are two active tennis clubs with three well kept courts. A golf club has been organized for students and professors. Play is held on the Hotel Raymond links in Pasadena.

Gymnastics for Women

Before entering upon this training every student is given a thorough physical examination by Miss Vanderpool, in order that only such exercises may be given as are suited to the student's individual needs. If owing to any physical inability to take the work with the regular classes it seems necessary to take special corrective work, private instruction may be arranged for.

The regular course includes gymnastics, athletics and physical culture. A combination of the Swedish and German system of gymnastics is used.

The gymnasium is well equipped with apparatus. All work must be done under the supervision of the Director.

The athletic grounds are adjacent to the gymnasium and participation in out-door sports is expected of all young women taking physical training. They may elect tennis, volley-ball, or basket ball. Steps are being taken to secure a hockey field,

and it is hoped that hockey will soon be one of the regular outdoor sports. The University basket ball team is a member of the Young Women's Basket Ball League of Southern California, and the young women who show greatest proficiency in basket ball are chosen to represent the University in inter-collegiate games.

Students are required to provide themselves with a special suit for gymnasium exercises. The Director must be consulted in this matter, in order that there may be uniformity of costume.

For information in regard to the Professional Course for teachers, see College of Oratory.

Scholarships

THE HUGH JOHNSTON SCHOLARSHIP.

This scholarship was founded by Mrs. Anna H. Johnston, of Pasadena, in memory of her deceased husband, and is for the benefit of needy students. Mrs. Johnston will name the incumbent when she desires. Otherwise this will be done by the authorities of the University.

THE SPENCE SCHOLARSHIP.

This scholarship was founded by the Hon. E. F. Spence in his life time, and is devoted to the use of needy students in the San Diego district, upon recommendation of the Presiding Elder of that district.

Others contemplate the establishment of prizes and scholarships, and it is earnestly hoped that soon a goodly number can be offered. Friends of the school can greatly add to its attractiveness in this way.

Prizes

THE LOTTIE LANE PRIZE.

This prize, established by Mrs. Charlotte A. Thompson as a memorial to a deceased daughter, is an elaborate gold medal, to be presented each year at Commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole college course. Students who have taken more than four academic years to complete the course or those who have received credit

for work done elsewhere than in this College, are not eligible for this prize. This medal was awarded in 1905 to Mr. Guy Edward Dyar.

THE ORATORICAL PRIZE.

The Phi Alpha Fraternity gives an annual prize of twenty-five dollars for the best oration delivered in contest by an undergraduate; the Oratorical Association in addition offers a second prize of fifteen dollars and a third prize of ten dollars.

The first prize was awarded in 1905 to Mr. Charles H. Scott.

Gifts to the University

THE HOUGH FUND. This is a fund of \$65,000 given by Rev. Asahel M. Hough, deceased, and his wife, Anna G. Hough, of Los Angeles. It is to be held by the University in perpetuity, and the income is to be used for current expenses of the College of Liberal Arts, or as the Board of Trustees may annually direct.

THE HAZZARD PROFESSORSHIP. Rev. A. C. Hazzard has given to the University property valued at \$30,000 for the endowment of a professorship in English Bible.

THE MERRYMAN PROFESSORSHIP. Mr. T. D. Merryman has given to the University property valued at \$25,000 for the endowment of a professorship in Mathematics.

THE HARTUPEE GIFT. This gift consists of property valued at \$45,000.

Ladies Auxiliary

An organization has been formed during the year of more than thirty ladies interested in the welfare of the University. It has been actively engaged in beautifying the campus of the College of Liberal Arts and in furnishing East Hall as a rest room for the young ladies, and in furnishing the trophy room for the young men.

Degrees Conferred in 1905

MASTER OF ARTS

Rynsuki Aoki,
Eva Pearl Mathews,
David P. Pakchoyan,
Harry W. White.

BACHELOR OF ARTS

Waldo Berry Christy,
Guy Edward Dyar,
Jesse Ray Miller,
Charles Holmes Scott,
Eleanor C. Seymour,
Philip Spencer Shanahan,
Henrietta Mae Walker,
Charles C. Williams.

For further information address

PRESIDENT GEORGE F. BOVARD,
Los Angeles, California.

THE COLLEGE OF MEDICINE

CALENDAR, 1906-1907

TWENTY-SECOND ANNUAL SESSION.

October 1-2—Entrance Examinations are conducted.

October 4, Thursday—Regular term begins at 9 a. m. at the College Building.

December 21, Friday evening—Christmas vacation begins.

January 2, Wednesday—Lectures resumed.

May 13, Monday—Examinations for the degree of Medicine begin, and continue until June 1.

June 1—Undergraduate Examinations begin.

June 13, Thursday, 8 p. m.—Commencement Exercises.

On all legal holidays of the State of California the schedule is suspended.

GENERAL STATEMENT

The College of Medicine of the University of Southern California is now entering upon its twenty-second year of work. Aiming to do only thorough work, it adopted from the first a three years graded course of instruction. In 1896 this was increased to four years. This College is a member of the Association of American Medical Colleges.

Location

The Faculty of this College believe that they are justified in calling the attention of Eastern students who are not robust to the peculiarly healthful and delightful climate of Los Angeles.

Many students on the Atlantic seaboard and in the Mississippi Valley find the rigorous winters interfering materially with their ability to study. They also take the risk of having chronic

pulmonary troubles fastened upon them. To such we say that the Los Angeles winter is really an ideal summer; and instead of the snow, sleet and ice many of us experienced in New York, Philadelphia and Chicago, we have here in Los Angeles, throughout the winter, sunshine, flowers and oranges. We believe living in Los Angeles is cheaper than in any other American city, and the only special extra outlay the student would incur would be the car fare.

Los Angeles is a progressive town, with a population of two hundred twenty-five thousand. It is the greatest railroad center on the Pacific Coast, and has within a few miles, three seaports—San Pedro, Redondo and Santa Monica. Besides the Medical College, Los Angeles has all the educational and social advantages belonging to a place of its size. There is an excellent public library, and numerous churches, colleges and private schools.

The College Building

The College Building is located at 737 Buena Vista street. It is on the Daly street division, and only a short distance from the Downey avenue division of the Los Angeles Electric Railway, and near the Pasadena and Santa Monica electric lines, making it accessible from all parts of the city and outlying towns. It is a three-story and basement building, with a two-story wing, in which is an amphitheatre with seating capacity for 300. The building was erected in 1895, and is well lighted, heated and ventilated.

The lower floor is devoted to the library, administrative offices, lecture and study rooms. The chemical and toxicological laboratories, with lecture and study rooms, occupy the second floor while the anatomical laboratory and lecture rooms are in the third story. In the basement, a refrigerating room has recently been installed, affording ample room for anatomical material. There is also a room equipped with bicycle stands for the use of the students.

Clinical Building

A clinical building on the lot adjoining that upon which the central building is located was completed in 1905. This building, both in itself and in its equipment, is unsurpassed by any similar establishment, and offers ample facilities for the treat-

ment of the over ten thousand ambulatory patients who apply annually to the outdoor clinics of the college, and is, of course, peculiarly adapted to the purpose of teaching.

Hendryx Laboratory

The Hendryx Laboratory was built by Dr. W. A. Hendryx as a memorial to his wife, Lucy Sheppard Hendryx, and was presented to the college, January 6th, 1899. It is a two-story building, standing about fifty feet north of the College building and farther from the street, thus avoiding the dust and noise of the street. It was planned by Prof. Black, and is unexcelled anywhere in its lighting and convenience. It is well equipped for undergraduate work and original investigation in histology, pathology, bacteriology and physiology, and has in connection with it an excellent house for the care of the animals used in experimental work.

The Barlow Medical Library

During the past year Dr. W. Jarvis Barlow, member of the faculty and chairman of the educational committee of the faculty, has presented to the College of Medicine of the University of Southern California, an elegant library building located on Buena Vista street just opposite the central college building. It is absolutely fire proof, the foundation walls being of granite and concrete, the main body of the building being of pressed brick fortified by concrete, and the deep porches ornamented with Corinthian pillars. It is surmounted by a glass dome which admits abundant light.

While the library, through Dr. Barlow's generosity, is owned by the College and under control of the faculty, yet it is for the benefit of all members of the medical profession in Southern California. Every physician as well as the students will have free access to the library, which already contains several thousand volumes. Provision has been made by which physicians who desire to take books home with them for a reasonable length of time may join the Barlow Medical Library Association, and, on payment of \$10.00 per annum, have this additional privilege. This is a very wise arrangement, as it thus provides for keeping an expert librarian always in charge.

STATEMENT OF INSTRUCTION

During the first two years of the course most of the instruction is given by recitations and in the laboratories. In the third year clinical work begins, recitations and the laboratory work are continued, with didactic lectures, but most of the work requiring attendance in the laboratory and recitation room is finished at the close of this year, while the senior year is devoted largely to clinical work and experimental work in the laboratory. The senior and junior classes are divided into sections; these sections, in rotation, act as assistants to the various clinics, so that during the term each member of each section has been able to act as assistant in the Gynecological, Surgical, Rectal, Eye, Ear, Nose and Throat, Children, Skin and Genito-Urinary, Medical and Neurological clinics.

Anatomy

PROF. MURPHY

DR. KIRKPATRICK

DR. GARCELON

The work in this department consists of six recitations of one hour each per week for the first year, and four recitations per week for the second year. The recitations and quizzes are supplemented by the demonstration of each topic on the cadaver before the class. In addition to this, the dissection of six parts (that is, both lateral halves of the body), is required of each student. These dissections are conducted under the direction of the assistant demonstrators of anatomy. The supply of material is always abundant. Each student, while dissecting, is expected to be in the Anatomical Laboratory, between 3 and 6 p. m. on five days of the week. The demonstrator and his assistants will be present to assist him at that time.

. Regional Anatomy is taught by Professor Murphy in a course of lectures extending through the first half of the third year, and is illustrated by actual dissections on the cadaver, charts and manikins, and operative work on cadaver.

Physiology and Physiological Chemistry

PROF. STOOKEY

DR. KRESS

Physiology is taught by the combined lecture, demonstrative and laboratory method. During the first year the following subjects are treated: Blood, circulation, respiration, secretion, di-

gestion, excretion and metabolism. Introductory lectures are taken up from a biological and comparative point of view, illustrated with diagrams, drawings and collaborated with biological and histological laboratory work. Once established in the fundamental principles of physiology an endeavor is made to especially emphasize those points which have a practical bearing upon the practice of medicine. The course is further supplemented by daily quizzes, weekly twenty-minute written exercises upon subjects assigned at the time, and written examinations upon the completion of each subdivision of this course.

In the second year Dr. Kress lectures three hours per week upon subjects of muscular and nervous phenomena, as well as upon the special senses and the phenomena of reproduction.

Laboratory course in Physiology is under the direction of Prof. Stookey and assistants. Each student is required to perform, under the supervision of an instructor, all of the experiments outlined in the syllabus. These experiments are intended to include only the most important fundamental physiological facts considered in the lectures. When individual work is impossible the class is subdivided into small sections of twos and fours. Each experiment must be written up and handed in together with graphic tracings, diagrams, bibliography, etc. A practical examination is conducted in this course at the end of the term.

Laboratory work in Physiological Chemistry is taken up during second semester, special attention being paid to digestion and excretion.

The new Physiological Laboratory apartments are located on the third floor of the main college building. They consist of a large, well-lighted class room, furnished with a number of tables and modern laboratory improvements; an amphitheater for demonstrating most important physiological principles; a room for apparatus and assistants' preparation or investigation laboratory. This department is also fortunate in having an excellent laboratory equipment.

The large sum of money so generously donated to the department by Mrs. Jane Mansil, of Hartford, Conn., has been expended in the purchase of the most modern physiological apparatus, etc. This, together with the supply previously possessed, and that subsequently donated by Dr. Milbank Johnson,

formerly professor of physiology, makes the physiological equipment equal to that of any medical college in the West.

Surgery

PROF. LASHER PROF. JOS. KURTZ PROF. WILLS
 PROF. MURPHY PROF. BRYANT

Prof. Lasher delivers two lectures and conducts one recitation a week to the third and fourth year students. Prof. Joseph Kurtz delivers one lecture a week on Operative and Orthopedic Surgery to the third and fourth year students. Prof. Wills delivers two lectures and demonstrations in minor surgery and bandaging during the first quarter of the second year. Prof. Murphy delivers two lectures a week during the third year on Surgical Pathology, during the second semester. This work is supplemented by six clinics at the College Dispensary and three clinics at the County Hospital per week. Prof. Bryant holds a clinic in the amphitheater of the Sisters Hospital every Thursday morning throughout the year.

Medicine

PROF. UTLEY PROF. COLE PROF. BARBER PROF. BARLOW
 DR. HAGADORN PROF. HUTCHINSON DR. HAYNES

Prof. Utley conducts two lectures and recitations per week for the fourth year students; Dr. Hagadorn three recitations per week for the third year students; Clinical Medicine for fourth year students is conducted by Profs. Cole, Barlow, Barber, and Haynes, each alternately giving the senior students two hours a week at the County Hospital, for two months throughout the year.

Physical Diagnosis is conducted by Prof. Hutchinson assisted by Dr. Frick, two hours a week beside instruction at the County Hospital for the third year students, one hour clinical lecture for the second year students at College, with practical demonstration on patients. All this medical work is supplemented by six medical clinics per week at the College out-door clinic, for third and fourth year students.

Materia Medica and Therapeutics

PROF. KING DR. QUINT DR. GODIN

Prof. King gives two lectures per week to the third year

students in Therapeutics. Dr. Quint devotes two hours a week to lectures and recitations on *Materia Medica* to the second year students, and Dr. Godin two hours a week of lectures and recitations to the first year students. Much of the time in the second year is devoted to the physiological action of drugs.

In addition to this, each student serves daily for four weeks compounding and dispensing prescriptions, under the supervision of Fred C. McKinnie, Pharmacist in the College Dispensary.

Chemistry

PROF. STABLER

First Year.—The course extends through the year, and consists of one lecture, demonstration or recitation, and two laboratory exercises of two hours each per week. The first two-thirds of the year is devoted to general and inorganic chemistry. A careful study is made of the laws governing chemical action and the properties of the common elements and their compounds. In the laboratory, practical instruction is given in qualitative and volumetric analysis. Organic Chemistry is studied the last part of the year. Special attention is given to the preparation and properties of typical compounds, attention being directed to changes which come under the heading of general reaction.

Second Year.—The work of this year is devoted to Organic and Physiological Chemistry. The course extends through the year, and consists of lectures and laboratory work two days of two hours each per week. The subjects studied are: Carbohydrates, the proteids, the chemistry of digestion, bile, blood, milk, lymph, stomach contents, and urine. Special attention is given to the study of the urine. Each student examines a large number of specimens chemically and microscopically, so as to become familiar with this secretion in normal and pathological condition. It is the purpose to provide the graduates with a knowledge which will best meet the demands of general practice.

Toxicology

DR. DUDLEY FULTON

Toxicology and Clinical Chemistry are taught by Dr. Fulton. The course includes lectures and practical laboratory work in

Toxicology, urine analysis and chemical examination of the blood and contents of the stomach. This course will comprise one hour in the lecture room and two hours in the laboratory throughout the third year.

Hygiene and State Medicine

PROF. ORME

PROF. POWERS

The prevention of disease and the preservation of health are now recognized as an important branch of medical education. This department is under the charge of gentlemen specially qualified by long study and experience. Professor Powers, who for several years has been the able Health Officer of the City of Los Angeles, has been, during the year, added to this branch of instruction. The work in this section is progressive, scientific and thorough.

Obstetrics

PROF. MOORE

DR. LAZARD

DR. COFFEY

Two hours a week of lectures and recitations are given the third year students, and one hour a week to manipulations on the manikin and cadaver before the fourth year students. This course is supplemented by arrangements whereby each member of the senior class is enabled to take charge of cases under the direction of some member of the Faculty to act as assistant to the physician having in charge the obstetrical ward of the County Hospital, and also the obstetrical cases in one of the rescue homes, so that each student in the senior class personally attends several cases before graduating.

Ophthalmology

PROF. ELLIS

DR. KIEFER

DR. BULLARD

Ophthalmology is taught by Prof. Ellis by means of lectures, recitations and clinical instruction. Each student of the senior class is taught the use of the ophthalmoscope and must be able to draw the fundus of a given eye before he may pass in this branch. Prof. Ellis will conduct two clinics a week at the College Dispensary, and a surgical clinic at the County Hospital, where the senior students will act as assistants and in turn keep record of the cases. The large amount of clinical matter in attendance at this clinic enables the Professor to give a thorough and practical course.

One hour per week of recitations is given the third year students for one-half year.

Ear, Nose and Throat

PROF. BABCOCK

DR. HASTINGS

DR. KELSEY

The third year students have one recitation a week for one half year and the fourth year students are given two lectures and clinics per week at the College. Prof. Babcock also permits members of the fourth year class to assist him at numerous private operations.

Diseases of Children

PROF. FOLLANSBEE

PROF. EDWARDS

Prof. Follansbee gives one recitation or lecture per week throughout the third year. This is supplemented by two clinics per week at the College Dispensary. During the session Prof. W. A. Edwards, formerly of the Faculty of the University of Pennsylvania, and the author of some of our most noted text-books on Diseases of Children, gives one lecture per week throughout the senior year. Dr. Edwards devotes these lectures more especially to the surgery of children, the chief operations being demonstrated upon animals.

Gynecology

PROF. CARL KURTZ

PROF. W. W. BECKETT

Prof. Kurtz during the first half of the year delivers at the College one lecture per week to the senior class. During the second semester Professor Beckett delivers one lecture to the same class at the College. This is supplemented by two clinics per week at the College, conducted by Prof. Carl Kurtz and Prof. Beckett. During the first semester Prof. Beckett gives one clinic each week at the County Hospital, and during the second semester Prof. Kurtz does the same. The senior students have also the opportunity of attending a large number of operations at various private hospitals in the city with which different members of the faculty are connected.

Diseases of the Skin and Genito-Urinary Organs

PROF. MACGOWAN

PROF. WILLIAMS

In this College the branches of Genito-Urinary Surgery,

Syphilis, and Diseases of the Skin are taught by the same Chair, and these clinics are united. No regular method of didactic lectures is followed, but the teaching is eminently practical, and consists of careful instruction in diagnosis and treatment upon living examples of the diseases used as a theme for the day's clinical demonstration. Clinics are held on Tuesdays and Saturdays at the College Dispensary, from 1 to 3 p. m., and at the County Hospital on Wednesday and Saturday mornings. During the year there is plenty of material for showing to the students all of the operations in Genito-Urinary Surgery. The class is instructed in the use of the cystoscope and the endoscope; these instruments being used whenever an indication therefor exists.

Pulmonary Tuberculosis

DR. POTTENGER

As one-ninth of all the deaths in the United States are from this disease, the attention of the students is directed particularly to its Diagnosis, Pathology, Prevention and Treatment by a course of lectures with clinical instruction by Dr. F. M. Pottenger.

Neurology

PROF. BRAINERD PROF. MURPHY DR. ROSS MOORE

Prof. Murphy gives one hour per week the first half of the year to the fourth year students on the Minute Anatomy of the Nervous System. This is illustrated by demonstrations, charts and microscopic specimens. Prof. Brainerd gives one lecture per week throughout the year to the fourth year students, and conducts a clinic once a week at the County Hospital, and once a week at the College. The lectures for the first half of the year are upon insanity. The present method of caring for the insane at the County Hospital, prior to their examination for commitment to the State Hospital for the Insane, enables the student to see during the year at the hospital clinics in nearly every form of insanity. Dr. Ross Moore conducts a quiz of one hour every two weeks.

Medical Jurisprudence

PROF. CONREY

Prof. Conrey lectures one hour per week during the last half of the senior year, giving fully the legal aspect of medical expert testimony, and the rights and duties of physicians in their relations to patients.

Histology

PROF. BLACK

DR. E. L. LEONARD

Six hours laboratory work and one hour recitation are devoted to this subject during the entire eight months. During laboratory work, recitations and general demonstration, by means of the most recent Leitz projection microscope are given. After a preliminary course on the general use of the microscope the student studies those fibers, etc., which, as foreign substances, so frequently confuse the beginner, as silk, cotton, wool and moth scales, etc. Then the individual cells are studied in teased specimens until the types of cells are understood. Then sections of all the normal organs are given the student. Drawings and written descriptions of these sections are required. Each student is also assigned various organs which he must remove from the animal and fix, harden, embed and section.

The laboratory is fully equipped with Bausch and Lomb, Leitz microscopes, dissecting microscopes, and freezing, Thomas and Schanze model microtomes.

Pathology

PROF. BLACK

DR. E. L. LEONARD

DR. J. D. CONDIT

The laboratory work occupies four hours per week during the Sophomore and two hours per week during the Junior year.

During the Sophomore year the students are given sections illustrating the process of acute and chronic inflammation, the infectious granulomata and the degenerations and benign and malignant tumors.

Drawings and full written descriptions of these sections are required.

In the Junior year the sections of uterine scrapings and those

illustrating repairs of wounds are given out, and a large number of unknown sections are given for the purpose of requiring the student to make his own diagnosis.

Each section must be fully described and a drawing made. Dr. J. D. Condit has two hours a week for the fourth year students in sections, at the County Hospital, on Gross Pathology, and, as material is provided, giving practical autopsy work.

Bacteriology

PROF. BLACK

DR. E. L. LEONARD

This subject is taught by practical laboratory work, embracing two hours a day for three days a week during two months.

First, the principal non-pathogenic organisms, and finally the principal pathogenic bacteria are studied by cultural, staining and clinical methods. The laboratory is fully equipped with microscopes, incubators, sterilizers (hot air, steam, auto-clave), etc.

In the Hendryx Laboratory is situated the Hendryx Medical Library, the nucleus of which was donated by Dr. W. A. Hendryx. There are at present about two thousand bound volumes on the shelves, consisting mainly of complete files of the leading medical journals of America.

Electro-Therapeutics

DR. A. SOILAND.

Dr. Soiland gives twelve lectures during the term on Electro-Therapeutics, with practical demonstrations in the department of electro-therapeutics in the Clinical Building which contains every modern improvement for pursuing this important branch.

Dental Hygiene

DR. GARRETT NEWKIRK

Dr. Newkirk gives to the Senior class a course of lectures on the Hygiene of the mouth and teeth.

CLINICAL FACILITIES

On four mornings of the week the County Hospital is open to students for clinical instruction. As there are nearly two hundred beds in this institution and nearly twelve hundred patients are admitted annually, it affords excellent opportunities for instruction. In addition to the cases in the general hospital, the new law of the State is such that all insane patients are kept under observation at the County Hospital for twenty-four hours or more prior to their examination for commitment to the State Hospital for the Insane. There are also a number of well conducted private hospitals throughout the city, with all of which various members of the faculty are officially connected; and, though not open to instruction of the students as a whole, they afford facilities to all senior students at various times to witness a great variety of surgical operations and many interesting medical cases. A clinic is held in the amphitheater of the Sisters Hospital—an institution of 150 beds—at 8 a. m. every Thursday.

A well organized dispensary at the College Building, with 10,000 patients a year, furnishes abundant material for daily clinics, in which the advanced students are required to do a large amount of the work in the examining and prescribing for patients, under the direction of the medical instructors. Arrangements have also been made with the Associated Charities whereby such cases coming within their jurisdiction as need medical attendance are placed in the care of the senior students, under the supervision of the clinical staff of the Dispensary.

COURSE OF STUDY

First Year.

MATERIA MEDICA.—Two hours of lectures and recitations per week. Practical work in dispensary, twelve hours for four weeks.

ANATOMY.—Six hours recitations with demonstration on cadaver each week. Dissection of at least one lateral half of body.

PHYSIOLOGY.—Three hours of recitations and four hours of laboratory work per week.

CHEMISTRY.—One hour recitation and four hours of laboratory work per week.

HISTOLOGY.—One hour recitation and six hours of laboratory work per week.

FINAL EXAMINATIONS at end of year on Histology, Embryology, Osteology, Syndesmology, Myology, and in Physiology on the Blood, Circulation, Digestion, Secretion and Excretion, Animal Heat.

Second Year.

MATERIA MEDICA.—Two hours lectures and recitations per week.

ANATOMY.—Four hours recitations and demonstration on cadaver per week. Dissections, one lateral half of body.

SURGICAL ANATOMY.—Two hours lectures and recitations per week, first half year.

PHYSIOLOGY.—Two hours recitations and two hours laboratory per week.

CHEMISTRY.—One hour lecture or recitation and four hours laboratory per week.

PATHOLOGY.—Two hours recitation and lectures per week, and eight hours laboratory work per week.

PHYSICAL DIAGNOSIS.—Two hours recitations per week for half year, and two hours practical work in College clinic the last half year.

HYGIENE.—One hour lecture per week for half year.

CLINICAL MEDICINE.—Two hours recitation per week throughout year.

FINAL EXAMINATIONS at end of year in Materia Medica, Anatomy (descriptive), Physiology, Chemistry, Pathology, Hygiene, Physical Diagnosis, Respiration.

Third Year.

SURGERY.—Three hours lectures, one hour recitation, and two hours clinics at County Hospital per week.

Six hours clinics at College Dispensary per week.

MEDICINE.—Three recitations per week.

Six hours clinics at College Dispensary.

OBSTETRICS.—Two recitations per week.

THERAPEUTICS.—Two hours lectures and recitations per week.

GYNECOLOGY.—One hour recitation per week.

PAEDIATRICS.—One hour lecture and recitation per week.

TOXICOLOGY, URINALYSIS, AND CLINICAL CHEMISTRY.—One hour lecture and two hours laboratory per week.

DERMATOLOGY AND VENEREAL.—One hour clinic per week.

BACTERIOLOGY.—Twelve hours laboratory per week, for six weeks.

SURGICAL ANATOMY.—Two hours lectures and recitations per week for one-half year.

GROSS PATHOLOGY.—One hour per week, for one-half year.

PHYSICAL DIAGNOSIS AND PRACTICE.—One hour per week.

OPHTHALMOLOGY.—One hour recitation per week, for one-half year.

OTOLOGY, LARYNGOLOGY, ETC.—One hour recitation per week, for one-half year.

SURGICAL PATHOLOGY.—Two hours per week.

FINAL EXAMINATIONS at end of third year in Therapeutics, Paediatrics, Toxicology, etc., Bacteriology, Surgical Anatomy, Gross Pathology and Obstetrics.

Fourth Year.

SURGERY.—Two hours lectures, one hour recitation.

Two hours clinics at County Hospital.

Orthopedrics, one hour lecture per week.

MEDICINE.—Two hours lectures and one hour recitation.

Three hours clinics and bed-side instructions at County Hospital.

OBSTETRICS.—One hour demonstrations on manikin and on cadaver per week.

GYNECOLOGY.—One hour clinic at County Hospital.

Two hours clinics at College Dispensary per week.

NEUROLOGY.—One hour lecture, one hour clinic and bed-side instruction at County Hospital.

One hour clinic at College Dispensary per week.

One hour lecture and recitation on minute Anatomy per week, for twelve weeks.

DERMATOLOGY VENEREAL AND GENITO-URINARY.—One hour clinic at County Hospital and one hour clinic at College Dispensary per week.

OPHTHALMOLOGY.—Two hours clinic per week at College Dispensary.

OTOLOGY, LARYNGOLOGY, ETC.—Two hours clinic at College Dispensary, per week.

ELECTRO-THERAPEUTICS.—One hour per week.

FINAL EXAMINATIONS at end of the year in Surgery, Medicine, Gynecology, Neurology, Dermatology, Genito-Urinary, Ophthalmology, Otology, Laryngology.

REQUIREMENTS FOR ADMISSION

All students must register each year with the Secretary.

To the First Year Class:

Students will be required to pass an examination in accordance with the rules of the Association of American Medical Colleges, unless graduates of some University, College, High School, Academy or Normal School, or present certificates as having done the work covering this ground. A medical student's certificate issued by any State Examining Board covering this work will be accepted. Students of Homeopathic or Eclectic Colleges will be credited with as many years as they attended those colleges, provided they have met preliminary requirements, and that they pass an examination in materia medica and therapeutics, their admission being subject, however, to the further approval of the Executive Committee.

To the Second Year Class:

Any student who has attended one or more courses in an accredited Medical College, graduates and students of Homeopathic, or Eclectic Medicine, as many years as they attended

those colleges, provided they have met the preliminary requirements, and that they pass an examination in materia medica and therapeutics, may be permitted to enter the second year; subject, however, to the further approval of the Dean and Faculty of the School.

To the Third Year Class:

Any student who has attended two terms in this or any other accredited Medical College, whose course of study is equally advanced, may, on presentation of proper credentials, enter the third year class.

To the Fourth Year Class:

Same as above, only adding one year's attendance.

REQUIREMENTS FOR GRADUATION

First.—The candidate for the degree of *Medicinæ Doctor* must have attained the age of twenty-one years, and be of good moral character.

Second.—He must have studied medicine for full four years, must have attended four courses of medical lectures (no two of them occurring in the same calendar year), the last of which must have been in this College.

Third.—He must have passed the required examinations on lectures, recitations, laboratory and clinical work, must have dissected the entire cadaver, and have fulfilled the required periods.

Fourth.—He must have paid all the College fees.

Fifth.—The foregoing are essential. But in addition to these is the final test vote of the Faculty as to the general fitness of the candidate for the degree; the Faculty reserving the right to reject in any or all cases upon this ground, apart from and in addition to all other tests and requirements.

The Faculty will maintain the right to suspend or expel a student at any time for conduct unbecoming a gentleman.

FEES

First Year—

Matriculation	\$ 5.00
Demonstration Fee	10.00
Lectures	130.00

Second Year Lectures \$130.00

Third Year Lectures 130.00

Fourth Year Diploma Fee — 40.00

Total tuition for the four years \$445.00

The Diploma Fee must be paid by January 1st, but will be returned if the candidate fails.

All fees must be paid at the beginning of the term.

Students admitted to any advanced course in consideration of work done elsewhere, must pay Matriculation, Demonstration and Lecture Fees.

Room and board may be procured for four dollars a week and upwards.

Address all communications as to matriculation and qualifications to Walter Lindley, M.D., LL.D., Dean, 1414 South Hope Street, Los Angeles.

Any further information may be had by application in person, or by writing to

FRED C. MCKINNIE,
Clerk of the Faculty,
737 Buena Vista Street,
Los Angeles, California.

Or to

W. D. BABCOCK, A.M., M.D., Secretary,
916, 917, 918 Braly Building, Los Angeles, Cal

COLLEGE OF PHARMACY

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CALENDAR, 1906-1907

Oct. 22, Monday—Regular term begins at the College Building.
Dec. 21, Friday—Christmas holidays begin.
Jan. 2, Wednesday—Lectures resumed.
May 3—Term closes.

On all legal holidays of the State of California the calendar will be suspended.

COLLEGE OF PHARMACY

The demands of pharmaceutical progress today require representatives who possess technical knowledge. To supply this demand, the College of Pharmacy is affiliated with the University of Southern California; its aim and purpose being to create a means for higher pharmaceutical education, and supply a broader foundation for the students' future professional career, by providing systematic instruction, and special training

in those subjects requisite for the successful practice of pharmacy.

Course of Instruction

The system of instruction will include lectures, demonstrations, recitations, written and oral examinations, as well as individual instruction in operative and dispensing pharmacy, organic, inorganic, and analytical chemistry, botany, materia medica, pharmacognosy, toxicology, and microscopy, with special lectures upon business topics especially suited to the retail pharmacist.

Session

The session will open October 22, 1906, and will continue until May 3, 1907 and the schedule will be conducted during the day and evening so as to allow students the privilege of retaining their positions as clerks in the stores of Los Angeles and neighboring towns while attending college.

College Building

The session will be held at the College of Medicine, located at number 737 Buena Vista street, between Ord and Alpine streets. It is on the Daly street division of the Los Angeles Electric Railway, and near the Pasadena and Santa Monica electric lines, making it accessible from all parts of the city and outlying towns. It is a three-story and basement building, with a two-story wing in which is an amphitheater with a seating capacity of 300. The pharmaceutical, chemical and toxicological laboratories with lecture and study rooms occupy the second floor, and are well lighted, heated and ventilated.

Requirements for Admission

Applicants for admission must be at least sixteen years of age, and must furnish evidence of their ability to prosecute the work of the course successfully. The preliminary education should be equivalent to that required for entrance to high school.

Advanced Standing

Students who have pursued courses of study in other colleges of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this college.

Requirements for Graduation

The candidate for the degree of Graduate in Pharmacy must be twenty-one years of age, have had four years' practical experience in pharmacy, including the period of attendance at college, and must have attended two annual courses of instruction, the first of which may have been in some other reputable college or school of pharmacy, he must have attended regularly the laboratory and lecture course of the College and have satisfactorily finished the required work. The candidate for the degree of graduation in pharmacy who presents himself for final examination before he has attained the age or practical experience required, will if successful receive a certificate of having finished the course, and will be awarded his diploma when the requirements of age and experience are complied with.

COURSE OF INSTRUCTION

Pharmacy

PROF. W. T. TAYLOR AND MR. A. W. STEVENSON

JUNIOR YEAR—Six Hours per Week.

The lectures of the Junior year will treat of the history of the Pharmacopoeia. Weights and measures, percentage solution and the arithmetic of dispensing and manufacturing pharmacy, owing to their importance, will be considered at length. Specific gravity and specific volume will be taught by demonstrations, using the various apparatus for the purpose, accompanied by a thorough explanation of each. Heat will next be considered, then the operations wherein heat is used; evaporation, distillation, sublimation, desiccation, exsiccation, etc. This will be followed by a discussion of the preservation of crude drugs and their preparation for manufacturing purposes;

then the operations of decantation, filtration, clarification, maceration, infusion, decoction and percolation.

Alternating with the subject of operative pharmacy, the galenical preparations will be critically studied; while they will be discussed from the standpoint of their several classifications, such individual preparations as merit it will be given special consideration; the object being to familiarize the student with the reasons for each step taken in the manufacture of the different preparations. The use of expensive and complicated apparatus will be avoided, and while all labor-saving devices will receive proper attention, the student will be taught to improvise apparatus from such articles as are easily obtainable in the average retail store.

Text Books: Caspari's Pharmacy and U. S. Pharmacopoeia.

SENIOR YEAR—Four hours per Week.

The lectures of the Senior year will embrace the study of the inorganic and organic acids and the salts of the different metallic bases; the commercial methods of preparation will be touched upon, and a special effort will be made to teach the student how to prepare them extemporaneously when necessity arises therefor. In addition to the official compounds, those unofficial ones which through frequency of use, merit it, will likewise be treated of.

This will be followed by a study of alkaloids, the neutral principle of vegetable drugs and the essential oils.

Extemporaneous pharmacy will then be taken up and will include a thorough discussion of dispensing. Facsimiles of physicians' prescriptions will, by means of the stereopticon, be thrown upon a screen, and the class drilled in reading those that are difficultly legible. Chemical and pharmaceutical incompatibilities will be taught, and best methods discussed for overcoming same.

Text Books: U. S. Pharmacopoeia and Ruddiman's Incompatibilities in Prescriptions.

Laboratory

JUNIOR YEAR—

Instruction will be given in the proper use of pharmaceutical apparatus. Determinations in specific gravity and specific

volume will be made by each member of the class. This will be followed by a course in the manufacture of the galenical preparations, each student being required to make one or more of each class.

SENIOR YEAR—

This will consist of a course in the granulation and purification of commercial chemicals, to be followed by a course in the manufacture of the simpler chemical compounds in order to drill the students in their extemporaneous preparation.

Dispensing Pharmacy

In this subject, actual experience will be given two hours each week to students, in compounding and dispensing prescriptions, under the supervision of Mr. Fred C. McKinnie, at the College clinics.

Materia Medica

PROF. C. W. HILL

This course consists of one lecture or recitation and one laboratory exercise of two hours per week, and will present the subject in as broad, yet concise, form as possible. It will be confined to that instruction which will be of greatest benefit to the student when the course is completed, giving larger consideration to those drugs of animal or vegetable origin which in commerce are most frequently met with.

The subject will treat first of those drugs of animal derivation, and will thence proceed to give consideration to those drugs of Phanerogamic and Cryptogamic origin. The lessons and lectures in Materia Medica will be based upon the pharmacopoeia; at the same time due observation will be given to those remedies which are unofficial. The order in which these agents will be taken up will be based upon a commercial classification, studying first the roots, which will be sub-classified according to analogous properties; thence continuing with Rhizomes, Barks, Flowers, Fruits, Seeds, etc. A prominent feature of the course will be found in the concurrent lecture system of instruction by oral question and bi-weekly test requiring written answers for correction.

Pharmacognosy

PROF. C. W. HILL

Instruction will be given two hours per week in this branch of studies, by lectures, as well as by recitations, quizzes, home study and examination of drugs—all these will be given with the view of enabling the student the more readily and thoroughly to identify the drug and give judgment as to quality.

The subject will be presented as follows:

1st—Drugs of animal origin.

2nd—Vegetable drugs.

Treating first the Cryptogams and next the Phanerogams.

Each drug will be considered as to its nature, origin, commercial and botanical relation, and microscopical structure, active principles, therapeutic action, doses.

Adulterations, admixtures and substitutions will be thoroughly discussed.

The later part of this course will be given entirely to microscopical consideration of the subject. and in connection the compound microscope, its mechanism and manipulation will be studied.

Chemistry

PROF. L. J. STABLER, M.S., PH. C.

E. A. HENDERSON, Assistant.

JUNIOR YEAR—Four hours per Week.

The course consists of one lecture or recitation and one laboratory exercise of two hours per week. The essential points of chemistry needed by a pharmacist are covered very thoroughly. A study is made of the laws governing chemical action and the properties of the common elements and their compounds.

The lectures are practically demonstrated by experiments which assist the student in gaining a clear knowledge of the subject.

Junior Laboratory Course. The student is provided with a complete equipment of apparatus for qualitative analysis. Particular attention will be given to the separation and identification of the compounds of the U. S. Pharmacopoeia, together with tests of purity.

SENIOR YEAR—Four Hours per Week.

The work of this year is devoted to Organic Chemistry, Toxicology and Urine Analysis. The course will consist of lectures and practical laboratory work throughout the year on these subjects.

Organic Chemistry. The course will cover the whole field of this branch which is so important to the pharmacist. Special attention will be paid to those compounds which are of pharmaceutical value, including synthetical and medicinal preparations.

Toxicology and Urine Analysis. The course will include lectures and practical laboratory work in the identification of the common poisons and a careful study of the abnormal constituents found in urine. Each student will make a complete analysis of a large number of samples from the hospital clinics.

Quantitative Chemistry. This course will cover the usual gravimetre and volumetre determinations. It will be a practical course in estimating the strength of pharmaceutical preparations.

Botany

PROF. A. B. ULREY

The course in Botany comprises a thorough study of flowering plants during the Junior year and a survey of cryptogamic plant life in the Senior year.

Each phase of the subject is presented with reference to the special needs of the pharmacist. The complete course is sufficiently comprehensive to afford an acquaintance with all of the great departments of botany.

The course includes a study of the gross structure, functions and classifications of plants; the microscopic structure of the tissues and lower forms of plant life.

The laboratory for microscopic work is equipped with a good grade of compound microscopes, several hundred prepared slides and a complete electrical projection apparatus for demonstration of microscopic objects on the screen.

Special Lectures

Arrangements will be made whereby special lectures upon Technical, Scientific and Business topics relative to pharmaceutical progress, will be delivered during the term by practical men, who from their experience and successful business careers are recognized as authorities upon these subjects.

Special lectures on the subject of Food and Drug Adulteration will be given during the course by Erwin H. Miller, B.S., Ph.C., City Chemist of Los Angeles.

FEES AND EXPENSES

Matriculation

The fee for matriculation is five dollars and is required of junior students upon entering the class for the first time and of senior students who have taken the first year's work elsewhere

Tuition Fees

The tuition fee for each year is seventy-five dollars. The payment of this fee entitles the purchaser to one continuous course of lectures and laboratory instruction in all departments. The tuition fee covers all drugs, chemicals and other materials consumed by the student in the laboratories, no extra charge being made for these. *Special Students* may, by permission of the faculty, take any part of the course at a proportionate tuition fee, providing that such fee shall not be less than twenty-five dollars.

Laboratory Deposit

Chemical and pharmaceutical apparatus and supplies, together with microscopes and other implements required in the work of the course, are furnished by the College without expense to the student, but breakage or damage to apparatus must be paid for, and for this reason each junior or senior student is required to deposit ten dollars with the Secretary. This deposit, or such portion of it as is not required for the specified purpose, will be refunded at the close of the term.

A diploma fee of five dollars will be required.

Payment of Fees

All fees must be paid at the beginning of the term. Where this is impossible the Laboratory Deposit and at least one-third of the tuition must be paid upon entering the class. The balance of tuition to be secured by note to be paid sixty days from date of matriculation.

Text Books

Pharmacy—Caspari's, United States Pharmacopoeia.

Chemistry—Simon, Prescott, Sullivan, etc.

Toxicology—Reese, Taylor's Outlines, Blyth's Poisons.

Materia Medica—Maisch.

Botany—Bastin's College, Gray's Structural Botany.

Physiology—Kirke's American Text Book.

Special Students

Students may matriculate for any separate course. Medical students will find a systematic instruction in pharmacy an excellent foundation for a medical course. The instruction offered in this school of pharmacy will give a working knowledge of chemistry as it is applied in the engineering and metallurgical industries.

Employment

The course of lectures has been so arranged as to permit those who desire it to devote a portion of their time to employment.

The Secretary will keep a register of students seeking such employment, and will give every assistance possible in procuring it for them.

Correspondence

Letters of inquiry will receive careful and prompt attention. Address all communications to FRED C. MCKINNIE, Secretary,
737 Buena Vista Street,
Los Angeles, Cal.

THE COLLEGE OF DENTISTRY

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BOARD OF TRUSTEES

Sec. 1. The board of trustees shall be chosen as follows: One from the Board of Trustees from the University of Southern California; one from the Southern California Dental Association, one from the Los Angeles Association of Dental Alumni; one from the alumni of this college, and five from the faculty of this college.

The said University of Southern California, the Los Angeles Association of Dental Alumni, and Southern California Dental Association and the alumni of this college shall have the privilege of nominating the member of the board of trustees from their respective organizations, but in event of their failure to do so before the annual meeting of the board of trustees, the choice of such member shall rest with the board.

THE COLLEGE OF DENTISTRY

CALENDAR, 1906-1907

September—Examinations for Admission.

September 29—Saturday, Examination for removal of conditions.

October 2—Tuesday, Opening exercises in main lecture room, 8 p.m.

October 3—Wednesday, Lecture Session of 1906-07 begins.

October 13—Friday, Registration of Students closed for Lecture session of 1906-07.

November 28—Wednesday, Thanksgiving recess begins 6 p.m.

December 3—Monday, Thanksgiving recess ends 8 a.m.

December 28—Friday, Christmas recess begins 6 p.m.

January 2—Wednesday, Christmas recess ends 8 a.m.

February 22—Washington's Birthday recess.

March 29, 30—Friday and Saturday, Easter holiday.

May 22—Freshman and Junior examinations begin.

May 31—Commencement exercises.

SCHEDULE OF STUDIES**Freshman Year**

Anatomy with Dissection.
Physiology.
Chemistry, Inorganic.
Chemistry, Laboratory.
Dental Anatomy.
Histology, Laboratory.
Operative Technics.
Prosthetic Technics.
Materia Medica.
Comparative Dental Anatomy.

Junior Year

Anatomy with Dissection.
Physiology.
Pathology.
Chemistry, Organic.
Chemistry, Laboratory.
Metallurgy, Laboratory.
Dental Materia Medica and Therapeutics.
Operative Dentistry, Didactic.
Operative Dentistry, Infirmary.
Prosthetic Dentistry.
Crown and Bridge Work and Porcelain Technics.
Orthodontia Technics.
Electrical Appliances.

Senior Year

Therapeutics, General and Special.
Dental Pathology.
Surgery, General.
Surgery, Oral.
Jurisprudence, Dental.
Orthodontia, Didactic, Infirmary.
Operative Dentistry, Didactic.
Prosthetic Dentistry, Didactic.
Porcelain Art.
Professional History and Literature.
Professional Ethics and Hygiene.

DEPARTMENTS

Operative Dentistry

PROF. FORD

PROF. JORDAN

Instruction in this department will be under the supervision of the Dean, and will consist of lectures and demonstrations, first, to the Junior students, following closely on the lines of their operative technic work. If qualified at the beginning of the second semester, Juniors are permitted to begin operative work in the Infirmary. Senior students will be instructed by a special course of lectures and clinics by well known operators, and by practical work in the Infirmary, carefully supervised.

In connection with this department Dr. Jordan will give a course of lectures on The Care and Management of Children's Teeth.

This course will consider pre-natal influences, and the nutrition and development of the child as relating to the teeth; the treating, filling and extraction of children's teeth; the disturbances found in the oral cavity incident to the first dentition, and the management of children in the office.

Anatomy

PROF. MURPHY

ASSOCIATE PROF. KIRKPATRICK

The college is fortunate in having for its instructor in this branch one who has taught Anatomy most successfully for many years in the Medical College. Professor Murphy gives a special course to dental students in which emphasis is placed upon the anatomy of the head, face and viscera. In addition each student is required to dissect one lateral half of the body.

Prosthodontia

PROF. HARRY M. KIRK

This branch of the work will be under the charge of Prof. Kirk, who will demonstrate on practical cases in the infirmary, and have supervision over all practical work in this department, with lectures to Senior and Junior students. The college is

most fortunate in having Prof. Kirk, who is one of the very best of teachers in this branch.

Physiology

PROF. PALLETTE

ASSOCIATE PROF. JENKS

The course in Physiology is given during the first and second years. The work consists of a systematic course of lectures, recitations and demonstrations.

The subjects of Cells and Tissues, Blood and the Circulatory System, are first taken up. and later the course is devoted to the study of the Alimentary Canal, Excretory Organs, Nervous System, Organs of Special Sense, and Organs of Reproduction.

Comparative Anatomy

PROF. BEBB

This course covers a comparison of the teeth and surrounding tissues of man with those of the lower orders of animal life. This is made more interesting and instructive to the student by the collection of crania numbering over 1000 specimens, which our museum affords, and a complete series of lantern slides for illustrating the lectures.

Students are required to make drawings and to prepare and mount one or more specimens. Those who are especially interested in making a collection will be assisted and encouraged in every way.

Operative Technics

PROF. H. GALE ATWATER

This important department is given special attention in our college, for we realize that the future success of the student, as well as the dentist, lies in his first instructions.

It is our aim to make this department one of the strongest in the college. The student will be instructed in the preparation of cavities, the selection and use of instruments; and the study of the character and manipulation of the different filling materials.

Histology

PROF. LEONARD

1. General Histology is taught by a series of lectures, one hour a week for eight months.

2. Practical laboratory work for four hours a week, for eight months. Isolated Cells, obtained by scrapings, teasings, etc., are first studied. Following this, sections of each organ of the body are studied. Class demonstrations by means of the projection microscope are given by the professor. Individual demonstrations are also given each student at the microscope.

3. Fourteen drawings in colors of selected sections are required.

Dental Histology

There will be lectures and practical laboratory work for four hours a week for eight months during the second year. The development of the tooth from the primitive dental groove to the adult tooth will be studied and demonstrated.

Twenty-five drawings in color of selected specimens, as seen in the microscope, are required.

Bacteriology

A course in Bacteriology is given to the Senior students, covering a period of two months, during which time many of the principal Pathogenic and non-Pathogenic Organisms are studied. Cultures are made by the students from carious teeth, abscesses, etc., obtained from the infirmary and the different organisms obtained are plated and cultivated.

The bacteriological laboratory is well equipped with all the modern apparatus and appliances.

General Pathology

PROF. LEONARD

This course comprises two hours a week—lectures and recitations—and four hours laboratory work. In the laboratory, sections are given the class illustrating the various degenerations, inflammations and benign and malignant tumors.

General class demonstrations, by means of the projection microscope, are given by the Professor. In addition, individual instruction is given each student at the microscope. Written descriptions of each section, and ten drawings in colors, are required.

Crown, Bridge Work and Ceramic Art

PROF. FORD DR. GRAY and DR. TOWNSEND

This department being both Operative and Prosthetic, and occupying the important field of Dentistry that it does, this College has deemed it wise to make it separate from the other two branches.

Students will receive a complete course in Crown technique, as well as lectures during their Freshman year.

Juniors will receive a complete course in Bridge technique during the first semester, and will do practical work in the infirmary during the balance of year.

Seniors will perform practical work in the Infirmary. A complete technical course will be given in Porcelain work, including the construction of Porcelain Crowns and Bridges; also the construction of Porcelain Inlays by different methods.

This course will be given during the entire year. A special technique room is provided for this work. This department is especially well equipped with large drawings of all descriptions illustrating these branches. The clinical facilities are excellent, demanding Gold Crowns and Bridges, as well as Porcelain Crowns, Bridges and Porcelain and Gold Inlays.

Chemistry and Metallurgy

PROF. BEANE

The courses in Chemistry and Metallurgy extend throughout the Freshman and Junior years. The former consists of one lecture and recitation and four to six hours laboratory work. The latter one lecture or recitation and two hours laboratory work

FRESHMAN YEAR. The work deals with Inorganic Chemistry. A careful study is made of the laws governing chemical action—the preparation, properties and tests of the elements and their

more important compounds. Analytic chemistry is begun.

JUNIOR YEAR. The work of the first semester deals particularly with those methods used in dentistry. In the laboratory the student is engaged in making analysis of Amalgams and Alloys, of melting, refining, and alloying. Organic and Physiological chemistry extends throughout the second semester.

Orthodontia

PROF. ROBINSON

This subject is taught during the Junior and Senior years.

In the Junior year a general outline of the work is given, followed by a course in model and appliance making.

During the Senior year the course consists of a series of lectures illustrated by numerous lantern slides. Beginning with normal occlusion the lectures take up the different classes of mal-occlusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retention.

Dental Pathology, Materia Medica and Therapeutics

PROF. SMITH

The instruction in this branch will consist of two lectures each week to Junior and Senior students embracing a study of all pathological conditions of interest to the dental practitioner together with a general application of the therapeutic agents indicated in the treatment of such conditions.

Dental Materia Medica

PROF. SMITH

A complete course of lectures will be given the Junior and Senior classes, upon this subject.

Surgery and Anesthesia

PROF. LOCKWOOD

DR. THORNTON

Prof. Lockwood will lecture on General and Oral Surgery and Anesthesia.

Practical cases in Oral Surgery will be operated on in the new surgical amphitheater.

Prosthetic Technics

PROF. KIRK

DR. ANDERSON

In order to give the best possible instruction in the manual training of the mechanical department, a commodious laboratory is fitted expressly for first course students, where they receive individual care and instruction in the use of all the instruments and materials necessary for the construction of all forms of dental substitutes.

During the second semester a course will be given in the properties of steels, forging, tempering and polishing, and the making of instruments, etc.

General Materia Medica Therapeutics

PROF. MYERS

Prof. Myers will give one lecture a week to the Junior and Senior classes.

Dental Anatomy

PROF. REED

Professor Reed gives a course of lectures on the General Structure and Anatomy of the Teeth, accompanied by laboratory work of tooth carving and dissection.

Professional Ethics and Hygiene

PROF. J. D. MOODY

Prof. Moody will deliver a course of lectures on these very important subjects. The personal and ethical conduct of the student before and after his graduation have quite as much to do in determining his standing and success in the community as do his knowledge and technical skill.

Also, under direction of Professor Moody a college Dental Society, for literary improvement, the writing, criticism and

discussion of papers along professional lines, has been organized and carried through with excellent results.

Attendance at the society meetings is required.

Extraction and Anesthetics

DR. A. A. SHAW

Dr. A. A. Shaw will lecture and demonstrate once a week.

Electricity

DR. JARVIS

This course will be of great value to the students in teaching them how to select and keep their electric appliances in good condition. There will be lectures on general electricity and electric therapeutics.

Infirmary

The infirmary for the past three years has been abundantly supplied with clinical material.

Aside from a large number of American patients, we have Spaniards, Mexicans, Chinese, Japanese, people from the British Isles, and the North and South of Europe (Russians, Germans, etc.), enabling a student so disposed to study ethnic features, and also affording an opportunity for foreign students to operate upon their own race.

Rules Governing Standing of Students and Examinations

1. The grades will be made upon the scale of 100; the passing mark will be 75; attendance upon infirmary clinics 90 per cent.; lecture course and laboratories 75 per cent.

2. There will be no re-examination of unsuccessful candidates for the degree of D.D.S., until the close of the ensuing session; and the said candidates will be required to attend the instruction during the subsequent session on the branch or branches in which they failed before they will be eligible for re-examination.

CONDITIONS OF ADMISSION

Special Notice to Students

Extract from Code of Rules of the National Association of Dental College Faculties:

"No college of this Association shall give credit for a full course to students admitted later than ten days after the opening day of the session, as published in the announcement."

In case one is prevented by sickness, properly certified to by a reputable practicing physician, from complying with the foregoing rule, the time of admission shall not be later than twenty days from the opening day.

"A candidate for matriculation who presents a diploma from a reputable literary institution, or other evidence of literary qualification, shall be admitted without further examination."

"The minimum preliminary educational requirement of colleges of this Association shall be a certificate of entrance into the third year of a high school or its equivalent, the preliminary examination as given by the State Superintendent of Public Instruction."

Students desiring to matriculate should bring and present to the Dean for his inspection any diplomas, literary or otherwise, which they have.

A student having earned the degree of A.B., or B.S., in a course similar to the Chemical or Biological of John Hopkins University, is entitled to a credit of one year.

No student can be received who is not present within ten days after the opening day as announced in the Bulletin, except in case of sickness, when 10 days additional can be allowed.

Admission to Advanced Standing

Extracts from rules of the National Association:

That advanced standing in the classes of members of this Association shall not be given students except in the following instances:

Where a student shall have taken a full course in a school a member of this Association, or one especially recognized, or graduation from a reputable medical college, he may receive one year's advanced standing.

Colleges of the Association "may receive into the Junior or Senior classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or Junior years, respectively; this certificate is to be a pledge to any college to which they may apply that a previous year has been spent in the institution from whence they came."

Requirements for Graduation

1. The candidate for the degree of Doctor of Dental Surgery shall be at least twenty-one years of age and of good moral character.

2. He shall have attended three full courses of lectures, of 32 weeks of six days each, exclusive of vacations, at some recognized and accredited dental school. The last course shall have been attended at this college.

3. He must have passed satisfactory written examinations by the Faculty on the Lecture Curriculum, and earned a satisfactory rating as to attendance and practical work.

Precepts and Fees

1. The matriculation fee must be paid to the Secretary before the name of a student will be recorded.

2. The Board of Directors may, at their discretion, give a rebate should a student be compelled to discontinue his studies, or allow the application of a part of the fees to the succeeding year.

3. The infirmary of the College will be kept open during the entire year. Students who are already matriculated may be admitted to the summer practical course without the payment of extra fees.

4. The Faculty reserves the right to terminate the connection of any student with the institution at any time on the ground of what it may deem mental or moral unfitness for the profession, disorderly conduct, or failure to comply with the rules of the College.

5. The Faculty will expel any student convicted of practicing dentistry illegally while under its jurisdiction.

SCHEDULE OF FEES***Freshman Year**

Matriculation fee (paid but once)	\$ 5.00
Lecture ticket	120.00
	<hr/>
	\$125.00

Junior Year

Lecture ticket	\$125.00
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Senior Year

Lecture Ticket including final examination fee	\$125.00
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A deposit fee of \$5.00 for general breakage is required each year.

A deposit fee of \$5.00 is required to cover the combined breakage in the Histological, Chemical and Porcelain Laboratories.

Dissection fees for the three parts, \$6.00.

*Note. This schedule is subject to a resolution of the National Association of Dental Faculties, to be voted upon in July, making the fees \$150.00 and \$5.00 matriculation fee for each year.

The above are the entire college fees, except books and instruments.

Address all communications to the Dean,

L. E. FORD, D.D.S.,

304 E. 5th St.

The Geo. H. Cushing Library and Museum

It is the aim of Dr. Bebb, who has the library and museum in charge, to make it worthy of the illustrious name which it bears. A number of text and reference volumes have already been obtained and additions are constantly being made.

Back volumes of all the leading journals are being collected and on the tables will be found the current dental literature.

The museum, which we believe is unsurpassed west of the Mississippi river, and by few eastern colleges, contains 1000 animals' crania.

These, together with specimens of teeth, casts, disarticulated skulls, etc., are all at the disposal of the students for study.

The profession at all times are heartily welcome to the use of the library and museum.

THE COLLEGE OF LAW

1906-1907

The College of Law of the University of Southern California is under the immediate supervision and control of the Board of Trustees of the University. It is managed by a Dean and a Secretary and a Board of Control, all appointed by the University Board of Trustees.

The College of Law is located in the Rindge Building, on the corner of Broadway and Third Streets, in the city of Los Angeles. This location is convenient to the Federal Courts, and the State Superior, Appellate and Supreme Courts. The rooms are well fitted up for the use of the students. They are heated by gas and lighted by electricity.

Object of the College

The purpose of this college is to impart a sound and thorough legal education and to qualify students for admission to practice in all the courts, not only of this, but of any other state, and in the Federal Courts.

All students entering the College of Law are entitled to four hours of instruction per week in the College of Liberal Arts without additional cost.

The Course

The course of study covers a period of three years. The degree of LL.B. is conferred by the University of Southern California on all graduates of this department.

The method of instruction is a combination of the lecture, text book and case systems, with practical experience in briefing and pleading.

A moot court and debating club are made a part of the school work. The moot court is presided over by the members of the Faculty or other lawyers of experience, and is arranged as far as possible so as to give practical experience in court work, and each student in the Junior and Senior years must write at least three briefs, which are examined and graded by the Faculty.

All of the Faculty, both instructors and lecturers, are lawyers in active practice and stand high at the California bar.

Persons who are not studying for a degree may enter the College of Law at any time as special students and may pursue such studies as they desire. This provision is made especially for the aid of those seeking or holding positions of trust in banks and other business institutions.

Library

The College of Law has a library of its own, consisting of reports and text books. Students of the Law College have the privilege of using the Los Angeles County Law Library upon the same terms as members of the Los Angeles Bar. This library at present consists of more than 15,000 volumes and includes all of the Federal and State reports, and many Irish, English and Canadian, and a large assortment of text books. Through the courtesy of the Board of Trustees of the Public Library, students have special facilities for the use of books at the City Library, which consists of 115,000 volumes.

Requirements for Admission

Persons who desire to enter the College of Law must satisfy the Faculty that they have a knowledge of English and History equivalent to the English History taught in the High Schools. An entrance fee of \$10 will be required upon registering, and the fee of \$30 per semester, or \$50 if paid annually in advance, at the beginning of the college year.

Candidates for admission must be at least eighteen years of age and must furnish the Secretary with two certificates of good moral character.

Beginning with the year 1907-1908 applicants for admission must have completed a high school course, or work equivalent

thereto, or must pass an examination upon subjects contained in the high school course established in this State.

COURSE OF INSTRUCTION

In addition to the following, special lectures are provided during the year upon subjects which though not required in a legal course, are yet of much value to those desiring a well-rounded knowledge of the law.

The method of instruction is by text-book and selected cases unless otherwise specified.

FIRST YEAR

FIRST SEMESTER

CONTRACTS	Wm. P. James
Two Periods	
CRIMINAL LAW	Frank R. Willis
Two Periods	
ELEMENTARY LAW AND BLACKSTONE	Gavin W. Craig
Two Periods	
DOMESTIC RELATIONS	Sam. L. Baker
Text-Books, Two Periods	
TORTS	Gavin W. Craig
One Period	
BAILMENTS	Frank M. Porter
One Period	

SECOND SEMESTER

CONTRACTS	Wm. P. James
Two Periods	
CRIMINAL PROCEDURE	Frank R. Willis
Penal Code and Selected Cases, One Period	
DAMAGES	Claire S. Tappan
One Period	
TORTS	Gavin W. Craig
Two Periods	

BAILMENT	Frank M. Porter
One Period	
ELEMENTARY LAW AND BLACKSTONE .	Gavin W. Craig
Two Periods	
NEGLIGENCE	Grant R. Bennett
Text-Book, One Period	
USE OF BOOKS	T. W. Robinson
BRIEFING	T. W. Robinson
Lectures, One Period	

SECOND YEAR

FIRST SEMESTER

COMMON LAW PLEADING	Lewis R. Works
One Period	
PRIVATE CORPORATIONS	D. K. Trask
One Period	
AGENCY	Lewis A. Groff
One Period	
WILLS	Curtis D. Wilbur
One Period	
REAL PROPERTY	Geo. H. Woodruff
One Period	
COMMERCIAL PAPER	W. C. Petchner
One Period	
PARTNERSHIP	J. Wiseman Mac Donald
One Period	
CONSTITUTIONAL LAW	W. A. Cheney
One Period	
EQUITY JURISPRUDENCE	Grant R. Bennett
Three Periods	
STATUTORY INTERPRETATION	T. W. Robinson
One Period	

JUSTICE COURT PRACTICE Gavin W. Craig
 Code of Civil Procedure of California and Lectures,
 One Period, Part of Semester

PATENTS James R. Townsend
 Lectures, One Period, Part of Semester
 Moot Court, One Period

SECOND SEMESTER

COMMON LAW PLEADING Lewis R. Works
 One Period

PRIVATE CORPORATIONS D. K. Trask
 One Period

CONSTITUTIONAL LAW W. A. Cheney
 One Period

EQUITY JURISPRUDENCE Grant R. Bennett
 Three Periods

COMMERCIAL PAPER W. C. Petchner
 One Period

EQUITY PLEADING Lewis R. Works
 One Period

REAL PROPERTY Geo. H. Woodruff
 Two Periods

WILLS AND PROBATE LAW Curtis D. Wilbur
 One Period

Moot Court, One Period

THIRD YEAR

FIRST SEMESTER

PERSONAL PROPERTY W. C. Petchner
 One Period

CODE PLEADING Lewis R. Works
 Two Periods

REAL PROPERTY Wm. M. Hiatt
Two Periods

PUBLIC CORPORATIONS Walter F. Haas
Lectures and Cases, Two Periods

EVIDENCE Frank M. Porter
Three Periods
Moot Court, One Period

SECOND SEMESTER

CODE PLEADING Lewis R. Works
Code of Civil Procedure and Text Books, Two Periods

EVIDENCE Frank M. Porter
Three Periods

MINING LAW W. C. Petchner
One Period

REAL PROPERTY Wm. M. Hiatt
Two Periods

CALIFORNIA LIEN LAW Frank James
Five Lectures

APPEALS J. W. Swanwick
Three Lectures

WATER RIGHTS E. W. Britt
Eight Lectures

FEDERAL PRACTICE E. W. Capp
Seven Lectures

ADMIRALTY E. W. Tuttle
Four Lectures

BANKRUPTCY W. T. Craig
Five Lectures

ADVOCACY Earl Rogers
Six Lectures

LEGAL ETHICS John D. Pope
Three Lectures

MEDICAL JURISPRUDENCE N. P. Conrey
Six Lectures

INSURANCE LAW Seward A. Simons
Eight Lectures

Moot Court, One Period

Debating Club Work for all Classes

Attendance at 90 per cent. of the lectures and recitations is required for promotion or graduation.

Examinations are given at the end of each semester. A grade of 75 per cent. on examinations and daily work, in each subject, is required for promotion or graduation.

Attendance at 70 per cent of Moot Court and Debating Club sessions is required.

PUBLIC SPEAKING, VOICE BUILDING AND EXPRESSION

A course in Public Speaking, Voice Building and Expression will be offered by Miss Beulah Wright, Dean of the College of Oratory, University of Southern California.

The course is designed to meet the needs of the students of the Department of Law. The work is of the most practical character.

It is the aim to teach a student to be simple and natural in his expression, and when occasion shall demand, powerful, but at all times to preserve his individuality. A great deal of stress is laid upon the development of the voice for purity, flexibility, and control.

Most of the work done in classes is of an extemporaneous nature, such as short talks on current public questions, argumentation and debate. Attention is also given to the study and delivery of great orations, as well as the preparation of original orations.

A graduate course is being arranged which will lead to the degree of Master of Laws.

Applicants for admission to the graduate class must be at least twenty-one years of age. The graduate course will be open to those, otherwise qualified, who have received the degree of Bachelor of Laws from this College, or from any approved law college, maintaining an undergraduate course of not less than three years of nine months each. Those only who are especially approved by the Faculty will be admitted to the course.

The course will cover the following and other subjects:

Mexican Land and Mining Law, International Law, Conflict of Laws, Contracts in Restraint of Trade, Military Court Martials, Problems relating to Capital and Labor, Diplomacy, Roman Law.

Those desiring further information relative to the College of Law may obtain it by writing for its special Announcement.

Address all communications:

UNIVERSITY OF SOUTHERN CALIFORNIA

COLLEGE OF LAW

Rindge Building, Los Angeles, Cal.

FRANK M. PORTER, *Dean*.

GAVIN W. CRAIG, *Secretary*.

THE COLLEGE OF MUSIC

General Statement

The musical department of the University was founded twenty-one years ago. By a faithful adherence to high standards its faculty have brought it to a well recognized position in higher musical education. Its diplomas have all the prestige which comes from its long establishment and the name of the University. Its graduates and former students are taking prominent places in the musical world all over the Southwest, both as teachers and performers.

The College of Music offers extensive courses in nearly all departments of musical instruction, and is designed to fit students for the profession, as composers, theorists, artists and teachers. It also provides for the study of music as a part of general culture or as an accomplishment.

Its unusually strong faculty, including some of the most widely known teachers in the Southwest, and its thorough courses of instruction, beside its location in connection with the University, make it an ideal school. Its aim is to make well-grounded musicians and not mere performers.

The general spirit of earnest study characteristic of an institution of higher learning such as the University has been found to react very beneficially on the student of music, who, too often, is inclined to superficiality. Breadth of character and liberal ideas are more surely attained in the atmosphere of general education than in that of specialized study.

Advantage of College Study

Among the many points of superiority of college study in music may be mentioned the regular attendance at lessons re-

quired, the musical atmosphere created by the recitals, lectures and class work, the opportunity given for obtaining in class work at very slight expense, the very best of training in the theoretical studies, such as harmony, theory and history of music—studies which are essential to the well grounded musician and which the private teacher can not touch upon in the lesson hour.

Equipment

The College of Music occupies the South wing of the main building. It is 108 feet long by 44 feet wide, substantially constructed of brick with plastered exterior. The interior is thoroughly modern and artistic in finish and furnishings. It contains a commodious and elegant reception hall, also cloak room and lavatories, lecture hall and recital hall, and a large number of exceptionally large and attractive studios. Nothing superior to it in the way of a music school home can be found in this section.

The school is equipped with a full complement of teaching and practice pianos. The pipe-organ in the college chapel is used by students for practice. It is blown by electric motor and the charge for rental is no more than blower's fees would be in an organ blown by hand.

Recitals

A feature of the greatest value to the students is the fortnightly pupils' recitals, at which the pupils are expected to play or sing before the whole school, as their teachers may direct. Public performance is an art in itself, and can only be mastered by many public appearances. Pupils who acquit themselves creditably at the recitals before the music students only, are allowed to appear at the public recitals of the school. Pupils thus have the opportunity to hear and become familiar with the music of the other departments. Recitals are also given by the faculty from time to time and also a regular course of lectures and lecture recitals on musical history and other topics. Music students have free admission to all public exercises of the school.

Diplomas

The diplomas of the University are given at the completion of the Normal and Collegiate courses.

The requirements for graduation in any department are the completion of the prescribed course in that department, at least one year's work in which must be done in this school; the completion of the Normal course of three terms in harmony and one term in musical theory; and the public performance during the senior year of an entire program under the direction of the department teacher.

Organ students will also be required to take the term of "keyboard harmony." Vocal students are required to take one year of piano work.

Teachers' Certificates

Teachers' Certificates will be given to those who have completed the work of the Normal course, but who for any reason are unable to give the public recital required for graduation. These will be of great value to those who are entering upon the teacher's profession, as they will certify to the completion of the course to the satisfaction of the faculty and carry their recommendation to the public.

The Course of Study

The educational system of the school is divided into three general departments: the Preparatory, the Normal, and the Collegiate.

The Preparatory department is open to all persons above seven years of age, with or without any previous knowledge of music. It is intended to prepare for the Normal, and also to meet the wants of those who have not the time or the inclination to enter upon an extended course but who desire the best possible instruction during the time they may devote to this study.

The Normal department is designed for students preparing for the profession as teachers, and for amateurs desirous of obtaining a thorough training in the art and science of music.

The Collegiate department is open to all who have taken the Normal.

College Credits

Credits will be given in the College of Liberal Arts for musical work as follows:—Two semester hours per term will be credited to students making passing grade in any one of the theoretical studies or advanced vocal or instrumental work, the total credits in any case not to exceed eight.

Business Regulations

Students entering after the opening of the term will register for the remaining portion, and will be charged pro rata. The work of the term begins on the date advertised, and students who enter late will find themselves behind their classes.

Students taking less than one-half term in class work will be charged for the half term; those taking more than a half term will be charged for the full term.

All students are required to attend the regular recitals of the school and to take part in them whenever so assigned.

No deduction will be made for temporary absences from lessons. Lessons missed will be made up to pupils, if notice of the intended absence is given at the previous lesson.

Lessons falling on National holidays are not lost to students.

Sheet music will be furnished students at teachers' rates, if paid for on delivery.

A discount of fifteen per cent. is allowed to the children of Methodist ministers. This discount applies to vocal and instrumental work only.

Tuition Fees

A Term or Semester consists of nineteen weeks. Fees are payable *at the office only*, monthly in advance.

Voice, two lessons per week (of 30 minutes each)	\$57.00
Voice, one lesson per week (of 30 minutes each)	33.25
Piano, Mr. Skeele, two lessons per week (45 minutes),	76.00
Piano, Mr. Skeele, one lesson per week (45 minutes),	38.00
Piano, Miss Arnett or Miss Trowbridge, two lessons per week (45 minutes)	38.00
Piano, Miss Arnett or Miss Trowbridge, one lesson per week (45 minutes)	19.00
Pipe Organ, two lessons per week (45 minutes)	76.00
Pipe Organ, one lesson per week (45 minutes)	38.00
Violin, two lessons per week (one hour)	76.00
Violin, one lesson per week (one hour)	38.00
Harmony and Theory, private lessons, one per week	28.50
Harmony and Theory, class lessons, two per week	15.00
Rental of Pipe Organ, one hour each day, including blowing, per term	17.10
Rental of Pipe Organ, two hours each day, per term	28.50
Rental of Piano, one hour each day, per term	4.00

For further particulars, address:

W. F. SKEELE, *Dean*

Wesley Avenue and West 37th Street.

Telephone Home 23441.

THE COLLEGE OF ORATORY

The system used in the College of Oratory is based upon the Cumnock Method, founded by Robert McLean Cumnock, D.D., Director of School of Oratory, Northwestern University, Evanston, Illinois.

The aims of our school are:

To develop the inner man.

To prepare the body to express the inner man.

The method is neither imitative nor mechanical but is founded upon psychological principles.

The pupil acquires the power to interpret for himself and to express emotions through his own individuality. The result is a naturalness and simplicity of manner together with personal power.

A great deal of attention is paid to the Department of Public Speaking. Ministers, theological students, or any who may have occasion to address audiences, will find this work of great value.

COURSES OF STUDY

COURSE I. Fundamental principles of expression, English phonation, enunciation, interpretation of selections from Cumnock's Choice Readings.

COURSE II. Voice building, breathing, tone placing, bodily expression, interpretation of selections from Cumnock's Choice Readings.

COURSE III. Interpretation from modern writers: Kipling, Barrie, Van Dyke, Riley, Kate Douglas Wiggin, Maclaren, Dunbar and others.

COURSE IV. A study of Lyric Poems: Wordsworth.

Browning, Tennyson, Burns, Lanier, Arnold, Dickens, and others.

COURSE V. Oratory, Bible and Hymn Reading. Sears' History of Oratory and Modern Eloquence. Curry's Vocal and Literary Interpretation of the Bible.

COURSE VI. Debate and Extemporaneous Speaking.

COURSE VII. Shakespeare: Julius Caesar, Macbeth, or Hamlet; As You Like It; Two Gentlemen of Verona, or Much Ado About Nothing.

COURSE VIII. Repertoire, abridgement of books and classics for public presentation, arrangement of programs, impersonation. (Advanced students only.)

Diploma Course

The work required in this course consists of: Three years of private work, two lessons per week; the eight courses; one year advanced Physical Training in addition to the two years required Gymnasium work; college work sufficient to enroll a student as a Junior in the College of Liberal Arts.

Certificate Course

The required work in this course consists of: Two years of private work, two lessons per week; Courses I, II and III, and three of the remaining five courses to be elected; two years of Physical Training; History, and not less than two years of English. It is possible for a student to complete this course in two years.

RECITALS

Pupils' recitals are given every two weeks, on Wednesday at 3:40 p.m., in the Aristotelian Literary Hall. The participation in these recitals by students is required that the student may have practice and gain confidence in appearing before audiences. All students enrolled in the school are expected to be present at each recital. Admission to friends is by card.

Faculty recitals are given each semester by the instructors in the school, or by artists from the outside.

PHYSICAL EXPRESSION

"Is not that the best education which gives to the mind and to the body all the force, all the beauty and all the perfection of which they are capable?"—Plato.

Special classes in Physical Culture are conducted for the Oratory students. The laws which underlie Physical Expression are here studied and such exercises are given as will best develop the pupil toward health, expressiveness of movement and grace. It is the aim of this work to bring the body under perfect control of the will, and to teach the principles of gesture in such a manner as to give spontaneity and freedom from affectation.

A Normal Course in Physical Education has been arranged to meet the needs of those desiring to teach this work. The course includes Hygiene, Physiology, Anatomy, Voice Building, Gymnastics, Athletics, Physical Culture and Practical Teaching.

CHILDREN'S DEPARTMENT

This course is planned for children under twelve years of age. Classes are organized in expression, where the children are trained in common reading and in the delivery of recitation.

Classes are also formed in Physical Culture, where children are taught correct breathing, standing, walking, sitting, and ease and lightness of movement. Exercises are given to correct individual faults of body, such as round shoulders and hollow chests.

TUITION

(Fees are payable to the Dean in Advance.)

Instruction per semester (18 weeks).

Full course, including two private lessons per week,

Physical Training, one or more classes in Expression
and English \$60.00

Two private lessons per week (45 minutes) 50.00

One private lesson per week (45 minutes) 25.00

A Course of ten lessons \$15.00 to \$20.00

Single lessons \$1.00 to \$2.50

Class, two periods per week (50 minutes) \$10.00

Physical Education

Full Normal Course	\$35.00
One private lesson per week (45 minutes)	20.00

Children's Department

Two private lessons per week, Expression (30 minutes)	\$35.00
One private lesson per week, Expression (30 minutes)	20.00
Class Expression, Course of 15 lessons	5.00
Class Physical Culture, Course of 15 lessons	3.00

A discount of ten per cent. on all private work will be given to Ministers.

The diploma fee is \$5.00.

The certificate fee is \$3.00.

A student in the College of Liberal Arts may elect a maximum of sixteen semester hours in the College of Oratory. See Page 55.

UNIVERSITY OF SOUTHERN CALIFORNIA

COLLEGE OF ORATORY

Thirty-sixth Street and Wesley Avenue.

MISS BEULAH WRIGHT, *Dean*.

THE COLLEGE OF FINE ARTS

The Los Angeles College of Fine Arts is situated at beautiful Garvanza. The COLLEGE BUILDING is surrounded by spacious and beautiful grounds on the cliff overlooking the famous Arroyo Seco, where the outdoor classes find ample material for sketching, in pool and running stream, magnificent mountain and foothill scenery, groves of superb old live oaks and sycamores.

In this land of sunshine, outdoor work is practicable and enjoyable throughout the year.

Trips are occasionally made to the nearer Missions or to the Sea Beaches, or the mountains, all of which are within easy reach by trolley.

IN THE PICTURE GALLERY a permanent exhibit of high class work is maintained. This is open to the public on Friday afternoons, and to the students of the school at all times.

CLASSES FOR MEN AND WOMEN in Drawing, Clay-Modelling, Composition, Painting in Oil, Water Color or Pastel, Illustrating for books and newspapers.

A FULL TEACHER'S COURSE includes Mechanical Drawing, Projection, Perspective, Freehand Drawing, Painting in Water Color and Oil, Art History, Classic and Sacred History, Anatomy.

THE COURSE IN DRAWING AND PAINTING covers three full years' work and entitles the student to a diploma on passing the required examination.

DIPLOMAS and other honors are conferred by the University of Southern California, with which institution the College of Fine Arts is affiliated.

SPECIAL BRANCHES may be taken separately from the course and certificates of proficiency will be granted by the College of Fine Arts, on passing the required examinations.

CREDITS will be allowed for work done in other schools or colleges where proficiency is shown.

A COMPETITION takes place once a month, open to all students in the life and portrait classes. A prize is awarded which entitles the winner to certain school privileges.

A GOLD MEDAL is awarded at the close of the school year to the student having made the best record for the year.

SCHOLARSHIP.—To the full course graduate making the best year's record, a scholarship of one year's graduate work will be awarded.

A SUMMER SCHOOL is maintained during the vacation months with classes in outdoor sketching, life, portrait and still life.

Admission of Students

No examination is required for entering the primary classes in any branch.

For the advanced class an example of work must be submitted showing the student's fitness.

Students may enter the school at any time during the school year.

Classes

Life Classes.—Monday, Wednesday and Saturday.

Portrait Classes.—From the draped model on Tuesday and Thursday.

Out door sketching.—Friday morning.

Juvenile Classes.—Saturday morning.

Modelling Classes.—Tuesday and Thursday.

Anatomy Lecture with demonstrations from skeleton and life.—Wednesday afternoon.

Art History Lecture with blackboard and other illustrations.—Monday afternoon.

Miss Rose Pitcher and Miss Arley Tottenham are in charge of the classes at the College of Liberal Arts.

Fees

6 Lessons per week, per month	. . . . .	\$11.00
3 Lessons per week, per month	. . . . .	6.00
2 Lessons per week, per month	. . . . .	5.00
1 Lesson per week, per month	. . . . .	3.50
Single Lessons, each	. . . . .	1.00
Full Collegiate Year	. . . . .	75.00
Per Semester	. . . . .	40.00
Private Lessons, each	. . . . .	2.00

LECTURE COURSES FREE TO ENROLLED STUDENTS

Artistic Anatomy, per year	. . . . .	\$10.00
Art History, per year	. . . . .	10.00

The Matriculation Fee is Five Dollars.

All Fees Payable in Advance.

W. L. JUDSON, *Dean*,
212 Thorne St., Los Angeles, Cal.

THE PREPARATORY SCHOOL

CALENDAR 1906-1907

1906			
Sept.	17	Monday	} Entrance examinations and registration for First Semester
Sept.	18	Tuesday	
Sept.	19	Wednesday	Instruction begins
Nov.	29	Thursday	} Thanksgiving Vacation
Nov.	30	Friday	
Dec.	17	Monday	} Christmas Vacation
1907			
Jan.	1	Tuesday	
Jan.	31	Thursday	Day of Prayer for Colleges
Feb.	1	Friday	} Mid-year examinations
Feb.	6	Wednesday	
Feb.	6	Wednesday	First semester ends
Feb.	7	Thursday	} Entrance examinations and registration for Second Semester
Feb.	8	Friday	
Feb.	11	Monday	Instruction begins
Feb.	22	Friday	Washington's Birthday
April	1	Monday	} Spring Vacation
April	9	Tuesday	
May	30	Thursday	Memorial Day
June	13	Thursday	} Final examinations
June	18	Tuesday	
June	19	Wednesday	Graduation exercises.

GENERAL STATEMENT

The Preparatory School is maintained in connection with the College of Liberal Arts. The classes are instructed either by the College professors, or by teachers under their supervision. The students enjoy all the general advantages open to students in

the College, including library, lectures, laboratories, religious and social privileges.

While the work of this school is mainly that of preparing students directly for the College, yet without lessening the work in this direction, the authorities realize the importance of giving increased attention to the large number of young people who desire academic instruction, but do not wish to devote the necessary time and means to secure a collegiate education. For this large and worthy class, the school purposes to provide sufficient facilities, so that in the limited time at their command they may acquire some preparation for their future work.

Requirements for Admission

Applicants must have finished work equivalent to that required for admission to the high schools. They must show evidence of fitness to begin the work of the classes in the school. Persons who wish to take a partial course, or to select their studies, can enter the preparatory school without a formal examination, and pursue such subjects as they may be prepared to take.

Registration

The method and regulations in registration are the same as those in the College (page 30).

Absence from Exercises

The rules and regulations concerning absences from required exercises are the same as in the College (page 32).

Reports

Reports of standing are sent to the parent or guardian of each student each month. The Faculty desire the co-operation of parents in their efforts to maintain a high grade of scholarship and deportment.

Graduation and Diplomas

The Preparatory School has a special evening set aside in commencement week for its graduation exercises.

Each student who completes one of the regular courses of study will be granted a diploma.

Literary Society

The Webster Literary Society is composed of young men who meet each week for training in public speaking.

The Willard Literary Society is composed of young women who meet each week for training in literary work.

COURSES OF STUDY

The regular courses of study are four in number, any one of which is designed to prepare students to enter the College of Liberal Arts, or institutions of similar standing. A student who has completed one of these courses is admitted to the College without examination.

	A	B	C	D
FIRST YEAR	5 English 5 Latin 5 Algebra 4 <i>Drawing (elective)</i> 2 Physical Training	5 English 5 Latin 5 Algebra 4 <i>Drawing (elective)</i> 2 Physical Training	5 English 5 Latin, French or Spanish * 5 Algebra 4 <i>Drawing (elective)</i> 2 Physical Training	5 English 5 Latin, French or Spanish * 5 Algebra 4 Drawing 2 Physical Training
SECOND YEAR	5 English 5 Latin 5 Ancient History 5 Greek 2 Physical Training	5 English 5 Latin 5 Ancient History 4 Zoology or Botany 2 Physical Training	5 English 5 Latin, French or Spanish * 5 Algebra 4 Zoology or Botany 2 Physical Training	5 English 5 Latin, French or Spanish * 5 Algebra 4 Drawing 2 Physical Training
THIRD YEAR	5 English, Zoology or Botany 5 Latin 5 Plane Geometry 5 Greek 2 Expression	5 English 5 Latin or Algebra 5 Plane Geometry 5 German 2 Expression	5 English 5 Chemistry 5 Plane Geometry 5 German 2 Expression	5 English 5 Chemistry 5 Plane Geometry 5 German 2 Expression
FOURTH YEAR	5 American History; Civics 5 Latin 5 Physics 5 Greek 1 <i>Algebra-Lectures(elective)</i>	5 American History; Civics 5 Latin or Mathematics (A)† 5 Physics 5 German 1 <i>Algebra-Lectures(elective)</i>	5 American History; Civics 4 Zoology, Botany or Math- 5 Physics |ematics (A)† 5 German 1 <i>Algebra-Lectures</i>	5 American History; Civics 4 Mathematics (A)† 5 Physics 5 German 1 <i>Algebra-Lectures</i>

NOTE:— The figures denote the number of class recitations (or their equivalent in laboratory work and drawing) per week. All subjects except those in italics are required.

* In courses C and D the language chosen in the first year must be continued in the second.
Mathematics (A) includes Solid Geometry, Trigonometry, and a review of Algebra.

DEPARTMENTS OF INSTRUCTION

ENGLISH

First Year

FIRST SEMESTER

- I. RHETORIC AND COMPOSITION: One theme a week.
Special attention to paragraph-structure.
- II. GAYLEY'S CLASSIC MYTHS: One hour a week.
- III. CLASSICS: Three hours a week.
 - 1. Scott: The Lady of the Lake.
 - 2. Carlyle: Essay on Burns.
 - 3. Lowell: Vision of Sir Launfal, Commemoration Ode.

SECOND SEMESTER

- I. RHETORICAL AND COMPOSITION: One theme a week.

STUDY

which is designed to prepare students to enter
A student who has completed one of these

C	D
5 English 5 Latin, French or Spanish * 5 Algebra 4 <i>Drawing (elective)</i> 2 Physical Training	5 English 5 Latin, French or Spanish * 5 Algebra 4 Drawing 2 Physical Training
5 English 5 Latin, French or Spanish * 5 Algebra 4 Zoology or Botany 2 Physical Training	5 English 5 Latin, French or Spanish * 5 Algebra 4 Drawing 2 Physical Training
5 English 5 Chemistry 5 Plane Geometry 5 German 2 Expression	5 English 5 Chemistry 5 Plane Geometry 5 German 2 Expression
5 American History; Civics 4 Zoology, Botany or Math- 5 Physics | ematics (A)† 5 German 1 Algebra-Lectures	5 American History; Civics 4 Mathematics (A)† 5 Physics 5 German 1 Algebra-Lectures

in laboratory work and drawing) per week. All subjects except
the second.
ebra.

Addition to Page 133

- II. PAINTER'S ELEMENTS OF CRITICISM: One hour a week.
III. CLASSICS: Three hours a week.
1. Macaulay: Essay on Warren Hastings.
2. Shakespeare: Julius Caesar.
3. Tennyson: Idylls of the King. (Selections.)
Third Year (10:30 daily)

FIRST SEMESTER

- I. COMPOSITION: One theme a week.
II. BRIEF OUTLINES OF ENGLISH HISTORY: One hour a week.
III. GAYLEY AND YOUNG'S PRINCIPLES AND PROGRESS OF
ENGLISH POETRY: Three hours a week.
1. Gray: The Elegy, The Bard.
2. Wordsworth: Tintern Abbey, Ode to Duty, Ode
on Intimations of Immortality.
3. Milton: Comus, Lycidas.
4. Shelley: The Cloud, Ode to a Skylark.

SECOND SEMESTER

- I. COMPOSITION: One theme a week.
II. BRIEF OUTLINES OF ENGLISH HISTORY: One hour a week.
III. CLASSICS: Three hours a week.
1. Browning: Andrea del Sarto, Abt Vogler, Rabbi
Ben Ezra.
2. Burke: Speech on Conciliation.
3. Webster-Hayne Debate.
4. Shakespeare: Macbeth.

DEPARTMENTS OF INSTRUCTION

ENGLISH

First Year

FIRST SEMESTER

- I. RHETORIC AND COMPOSITION: One theme a week.
Special attention to paragraph-structure.
- II. GAYLEY'S CLASSIC MYTHS: One hour a week.
- III. CLASSICS: Three hours a week.
 - 1. Scott: The Lady of the Lake.
 - 2. Carlyle: Essay on Burns.
 - 3. Lowell: Vision of Sir Launfal, Commemoration Ode.

SECOND SEMESTER

- I. RHETORICAL AND COMPOSITION: One theme a week.
Continuation of work of first semester.
- II. GAYLEY'S CLASSIC MYTHS: One hour a week.
- III. CLASSICS: Three hours a week.
 - 1. Sir Roger De Coverley Papers.
 - 2. Shakespeare: Merchant of Venice.
 - 3. George Eliot: Silas Marner.

Second Year

FIRST SEMESTER

- I. COMPOSITION: One theme a week; Description. Special attention to rhetorical structure.
- II. RHETORIC: Gardiner, Kittredge and Arnold. One hour a week.
- III. CLASSICS: Three hours a week.
 - 1. Scott: Ivanhoe; Lectures on the Development of the Novel.
 - 2. Coleridge: The Ancient Mariner; Comparative Study of the Folk-Ballad.
 - 3. Milton: L'Allegro, Il Penseroso.

SECOND SEMESTER

- I. COMPOSITION: One theme a week; Exposition. Special attention to unity, clearness, force and emphasis.

EXPRESSION

Two hours a week, throughout the year, for students in the third year. This course is designed to make the student more proficient in common reading, and to enable him not only to interpret clearly the literary thought, but to express it as well.

Much stress is laid upon English Phonation. Perhaps there is no subject in education that is of so much importance, and yet so deeply neglected. "The manner in which one speaks his mother tongue is looked upon as showing more clearly than any other one thing what his culture is, and what his associations have been." Selections from the best literature will be used in the study of the principles of vocal expression. Sight reading will be one of the features of the work.

FRENCH

First Year

The aim of the work in this year is to enable the student to pronounce, understand, read and write very simple French. To this end is given constant drill in reading aloud, writing from dictation, and *viva voce* translation, as well as the ordinary work in grammar and writing of exercises.

The vocabulary is increased by the memorizing of poems, and there is a constant endeavor to train the ear as well as the eye. The grammar work comprises the forms and simple uses of the article, noun, adjective and pronoun, with the regular conjugations and some of the commonest irregular verbs.

Second Year

The grammar is finished and reviewed. Increased facility in translation is acquired by the reading of a large amount of easy and interesting prose, and one recitation period a week is devoted to the rendering into French of connected English prose based on the text which is being read. A modern comedy is read at sight. This part of the recitation is conducted almost entirely in French.

GERMAN

First Year

Spanhoofd's Lehrbuch der deutschen Sprache. This text-book provides the material for the first year's course. It comprises studies in pronunciation, grammar, drill on the forms, and various anecdotes and poems for translation and memorizing. Further interesting reading is taken from Guerber's Maerchen und Erzaehlungen, Part I.

Second Year

Translation of modern German stories and plays. Storm's Immensee, Wilhelm's Hoeher als die Kirche, and others, are read. Two exercises a week from Wesselhoeft's German Composition, Parts I and II. Joynes-Meissner's Grammar forms the basis for a systematic continuation of the grammar work of the first year.

GREEK

First Year

White's First Lessons is used throughout the year. The aim of the first year's work is thoroughly to acquaint the pupil with forms.

Second Year

During this year the first four books of Xenophon's Anabasis are translated and selections from the fifth book are read at sight. The work is made the basis of a thorough drill in grammar. Goodwin's Greek Grammar is used for reference.

Third Year

Books I-III of Homer's Iliad are read and translated. Special attention is given to the peculiarities of the Homeric forms, to the scansion of dactylic hexameter, and to the mythological references. Pearson's Greek Prose Composition is used throughout the year.

HISTORY

The work in History is carried on by means of text-books, lectures, essays, and library work. Constant reference is made

to the atlas and dictionary, maps are drawn, essays required, and the topical method is used for special subjects. Full and carefully kept note books are required in all the subjects in this department.

I. ANCIENT HISTORY: Greek and Roman History. Five hours a week throughout the year.

II. AMERICAN HISTORY AND CIVICS. Five hours a week, throughout the year.

LATIN

First Year

The aim of the first year's work is to attain an accurate pronunciation, a thorough knowledge of all the regular forms of declension and conjugations, together with the simpler principles of syntax, and a vocabulary of about eight hundred common words.

Second Year

Four books of Caesar's Gallic War are read. Regular forms are reviewed and essential irregular forms are learned in a systematic study of Latin grammar. There is daily practice in oral or written translation into Latin of exercises based on the text read; and sight translation is an important part of the year's work. Some attention is given to subject matter.

Third Year

In the reading and interpretation of six of Cicero's orations the time is equally divided between language and subject matter. The grammar is thoroughly reviewed in daily oral or written composition based on the text. An attempt is made to gain a definite knowledge of Cicero and his age, of the Roman government in Cicero's time, and of the city of Rome. The simpler letters are read at sight.

Fourth Year

The first six books of Virgil's Aeneid are read and interpreted. A special effort is made to approach the work as *poetry*. Prosody, figures of speech, mythological references, and poetical constructions are studied. Metrical reading is insisted upon.

An idea of the Aeneid as a whole is gained by the sight reading of portions of the last six books. The entire grammar is reviewed in weekly prose composition.

MATHEMATICS

The aim of the course in mathematics is to cultivate the habits of independent reasoning, of accuracy of work, of precision and clearness in the statement of conclusions and the reason upon which they depend. First in importance is the intellectual training that makes the mind a ready and keen tool; second, the orderly acquisition of facts. Absolute thoroughness and work that increases in amount and difficulty with the student's increasing capacity, are required. *The student's efficiency is measured by his power to do.* Throughout the course written reviews and test examinations are frequent.

Algebra

I. Fisher and Schwatt's Secondary Algebra, through Quadratics, five hours a week, throughout the year. Special emphasis is placed on factoring and on the solution of equations. The object of the study is not only to acquire a knowledge of the subjects required for admission to the leading universities, but to secure the mental discipline for its own sake, and such a drill as looks to the use of the algebraic method in future study.

II. Beman and Smith's Elements of Algebra, five hours a week throughout the year. The text-book work is supplemented by lectures. These lectures are on the theory of algebra, and are a most important part of the work. This course is open only to those who have taken Course I.

III. Fisher and Schwatt's Higher Algebra, two hours a week, throughout the year. This course is given as an elective for students of marked mathematical ability, and is open only to those who have taken Course II.

Geometry

I. Plane Geometry, five hours a week, throughout the year. Careful attention is given to constructions, clear and logical expression, and above all to the attainment of the power to do original work in geometry. The exercises of the text-book are

supplemented by constant suggestions by the teacher for investigations.

II. Solid Geometry, three hours a week, during the first semester.

Trigonometry

Plane Trigonometry, and the study and solution of the Right Spherical Triangle, three hours a week, during the second semester. This course also includes a brief study of Logarithms.

DRAWING

First Year

Eight hours a week, throughout the year.

First Semester, **FREEHAND DRAWING**: Elementary line work from geometric solids and simple natural objects.

Second Semester, **INSTRUMENTAL DRAWING**: Linear drawing, simple geometric problems, lettering.

Second Year

Eight hours a week, throughout the year.

First Semester, **FREEHAND DRAWING**: Advanced line work in pencil from casts and still life, flat wash in black and color

Second Semester, **INSTRUMENTAL DRAWING**: Advanced geometric drawing, conic sections, projections.

PHYSICAL TRAINING

First Year

Systematic class work. This consists of vigorous drill with dumb bells, clubs, bar bells, etc., for the men; for the women, general development exercises in walking and running, simple, free movements, recreative games and outdoor sports. Required of all first year students. Two hours a week, throughout the year.

Second Year

Progressive graded work on various pieces of gymnastic apparatus, mat work and gymnastic games for the men; more dif-

ficult free movements, relaxing exercises, mat work, walking, drill, and dumb bells and games in the open air for the women. Required of all second year students. Two hours a week, throughout the year.

SCIENCE

Biology

Botany and Zoology, each given as a full course of eight hours per week, for one year. The work in each is a combination of laboratory study, lectures and recitations, with a careful notebook record of the work actually done by the student under the direction of the teacher. The ground covered and the method employed are such as fully meet the requirements of any college to which the student might desire to go.

Chemistry

The subject of Chemistry continues throughout the year, and includes all the general principles—theoretical and practical—of inorganic chemistry, such as given in Remsen and Randall's Chemical Experiments. Recitations and individual laboratory work occupy not fewer than seven hours per week. A special effort is made throughout to develop the scientific habit of thought and to lead the student to observe the chemical changes constantly taking place. In the laboratory each student is furnished with a desk and all necessary reagents and apparatus, and is required to keep a complete record of the work done during the year.

A laboratory fee of seven dollars per semester, and an additional deposit of five dollars is required. The loss by damage or destruction of apparatus will be deducted from the deposit of five dollars, and the balance refunded at the close of the semester.

Physics

The most modern treatment is given all the subjects usually studied in this course. The first semester is devoted chiefly to molar dynamics; the second to molecular and ether dynamics, with special emphasis placed upon electricity, and some of its applications and recent developments. Recitations and practical work occupy not fewer than seven hours each week through-

out the year. The aim of the course is to acquaint the student with all the fundamental principles, both theoretical and practical. The method of individual and experimental study, with carefully recorded results, is insisted upon.

A laboratory fee of four dollars per semester is charged.

SPANISH

First Year

De Tornos' Grammar, Worman's First and Second Readers Valera's El Pájaro Verde. Five hours a week, throughout the year.

Second Year

De Tornos' Grammar, Cuentos Castellanos, Galdos' Electra, Larra's Partir á Tiempo, Valera's Pepita Jiménez. Conversation and writing in Spanish. Five hours a week, throughout the year.

GENERAL INFORMATION

For general information concerning location of school, religious privileges, library and reading room, the museum and the science laboratories, athletics and the gymnasium, see pages 56-62.

Tuition and Fees

(Per semester, payable in advance)

Tuition: Full preparatory course	\$30.00
Two studies	21.00
One study	14.00
(Gymnasium fee and instruction in physical education included in above.)	
Gymnasium fee and instruction in physical education taken without other studies	6.00
Registration fee, included in above, but not subject to rebate	5.00

Laboratory fees:

Botany	.	.	.	.	.	.	.	.	\$4.00
Zoology	.	.	.	.	.	.	.	.	4.00
Chemistry	.	.	.	.	.	.	.	.	7.00
Physics	.	.	.	.	.	.	.	.	4.00

An additional deposit of \$5.00 to cover breakage, is required in Chemistry. This deposit, less cost of breakage, is refunded at the end of the semester.

For three studies full tuition will be charged.

A diploma fee of three dollars is charged the student who completes one of the regular courses of study.

Students who are recommended by a quarterly conference as candidates for the ministry; young women who are recommended for the work of deaconess by a quarterly conference and the Conference Board of Deaconesses; and the children of ministers in the regular work of any evangelical denomination, may have their tuition fees reduced to one-half the regular rate.

A discount of ten per cent. will be allowed on the *second* semester when the tuition fees for the whole year are paid in advance; also a discount of ten per cent. when two or more students enter from the same family.

No rebate will be allowed for less than one-half a semester's enforced absence.

The Declamation Prize

A prize of ten dollars, offered to the student who wins in contest in declamation, was awarded in 1905 to Miss Irene Louise Carter.

Rooms and Board

Students are required to submit to the Faculty a statement of the places where they desire to room and to board, and must secure their consent in each case.

Board and furnished rooms can be secured in private families at from three dollars to five dollars per week. Furnished rooms accommodating two students cost from four to eight dollars per month.

Other expenses incident to school life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the school for want of money.

For further information address:

PRESIDENT GEORGE F. BOVARD,
Los Angeles, California.

THE COMMERCIAL SCHOOL

PROFESSOR STARKE

The University maintains a fully organized commercial department, in which a full commercial course is provided for those who wish to prepare at once for business pursuits, and in which students of the Preparatory School and of the College of Liberal Arts have an opportunity to get instruction in the commercial branches. Careful instruction in all the elements of a business education is given, including full work in stenography and typewriting. A diploma is given to those who complete the business course or the course in stenography and typewriting.

COURSES OF INSTRUCTION

BOOKKEEPING

Our method of teaching the science of accounts makes the subject interesting and comprehensive.

The student learns first to journalize the different kinds of business transactions, and gets the meaning of the terms *debit* and *credit*. He then begins writing regular sets of books from simple and carefully selected business transactions. He is led step by step from the simple to the more difficult work until he has studied every variety of business transaction and mastered the principles of the subject. The transactions for these sets are carefully chosen, and are well adapted to the study of principles. The student also makes out statements, trial balances and balance sheets when he closes the ledger accounts. He is now capable of taking up the most fascinating branch of the subject, which is business practice.

BUSINESS PRACTICE

The student now goes to the Exchange and secures his cash, and other resources, with which to begin business. He takes the place of a principal, or of a bookkeeper for a firm, and begins a retail grocery business. He fills out notes, checks, drafts, makes deposits in the bank, writes receipts, makes out bills, statements, etc., and performs every variety of transaction, of which he keeps an accurate record in his books. When this set of books is finished he closes out this business, settles up, and enters the dry goods business, and so on, until he is thoroughly acquainted with the methods of keeping accounts by single and by double entry. Students do the office work by turn until all become familiar with every detail of the work.

PENMANSHIP

The ability to write a rapid, neat and legible hand is of the utmost importance to those who are to enter upon a business career. There are many clerical positions for persons who can write well, but none for those who cannot.

Recognizing this fact, our course of instruction is designed to lead the student to study and practice the art with the greatest possible pleasure and success. As a result our students soon become good writers and in the pursuit of other commercial branches make all of their papers and books present a creditable appearance. We teach the style of business writing which is taught by the best commercial colleges, and which is indorsed by business men throughout the country.

COMMERCIAL ARITHMETIC

The aim is to give a thorough training in practical arithmetic. Accuracy and speed in addition, subtraction, multiplication and division are required. Thorough work in fractions is done that the student may not be deficient in this important branch of the subject. Denominate numbers are carefully taught. Percentage and all its applications receive careful attention.

ENGLISH GRAMMAR

The chief objects to be accomplished in the study of grammar are *accuracy* and *facility* in the use of both spoken and written language.

To secure these ends, a careful study of the principles, forms and laws of discourse is essential. The sentence is the foundation or unit of discourse. All good writing consists of correct sentences properly joined. The student should be able to place the principal and subordinate elements in their proper relation. He should understand the function of every element, its relation to other elements, and its relation to the whole. For this reason great stress is placed upon the importance of composition the analysis of sentences, and the parsing of words. The aim is to interest and instruct the student in the more practical parts of the subject, and to stimulate and impel him to the use of good language and accurate terms in his every-day pursuits.

CORRESPONDENCE

As a very large percentage of the business of this country is conducted through the medium of letters, the ability to write a good letter can hardly be overestimated. The person who properly exercises this power may win the esteem and confidence of those who thus know him. This subject, as taught in our business course, embraces correct forms for the different kinds of letters—their parts, the heading, the address, the salutation, the body, the complimentary close and signature. The student becomes thorough by practice in writing letters of introduction, recommendation, application, and complaint, and in ordering goods, making remittances and sending telegrams.

SPELLING

The ability to spell and pronounce words correctly, and to use the word having the right meaning at all times, is one of the rarest accomplishments. To aid in attaining this desirable end, it is evident that the student should study not only the spelling, or form of words, but also their real significance and application. The design of the course is to help the student to become proficient in this subject without which no education is complete.

COMMERCIAL LAW

Business education is incomplete without a knowledge of the laws governing trade. This course requires a careful study of the following subjects: Contracts, Negotiable Paper, Sales of Personal Property, Agency, Partnership, Corporations, Common Carriers, Innkeepers, Insurance, Husband and Wife, Telegraph and Telephone Companies, Patents and Copyrights, Landlord and Tenant, and some others. A text book is used for study and class work, but this is supplemented by lectures.

SHORTHAND COURSE

Stenography and typewriting are the principal subjects of this course, but a knowledge of English grammar, spelling and letter-writing are required. Graham's Standard Phonography has been chosen as the most desirable system on account of its beauty, brevity, precision of expression, and general harmony of the principles presented. For many years it has been subjected to the most thorough tests in legal, literary, scientific and other forms of reporting. These have been the most convincing evidences of its superiority.

The student is required to master the principles as presented in the corresponding style, before taking up the more advanced work. This is necessary in order to lay a good foundation for the reporting style. The study of amanuensis work then forms an easy stepping stone from the corresponding to the reporting style of writing.

The Remington and Smith Premier typewriters are used, and both the "touch" and "sight" methods of writing are systematically taught.

The exact time required to complete a course cannot be given, since much depends upon the ability and energy of the student. As a general rule, it takes from one to two years to master a course, unless the student has already had a part of the work.

Tuition Fees

Business course, per semester	.	.	.	.	.	\$30.00
Shorthand course, per semester	.	.	.	.	.	32.00

CATALOGUE OF STUDENTS

THE COLLEGE OF LIBERAL ARTS

NAME	MAJOR	HOURS	HOME ADDRESS
Addison, Edna Helen.....	<i>Oratory</i>	28	Los Angeles
Adkinson, Paul Hasen.....	.....	24	Los Angeles
Amis, Avis Frank.....	.....	52	Los Angeles
Amis, Bonnie Ethel.....	.....	56	Los Angeles
Anderson, Ethel Frances ..	.....	.....	Los Angeles
Anderson, Mary Elaine.....	<i>History</i> ..	43	San Dimas
Armstrong, Gladys A.....	.....	16	Los Angeles
Arnold, Martha Margaret	<i>English</i>	111	Los Angeles
Ashcraft, Edwin Perry	<i>History</i>	60	Palms
Atwood, Amy Lovina	<i>Zoology</i>	50	Los Angeles
Avakian, Arsen Harootune	<i>Math</i>	20	Los Angeles
Ball, Adelaide.....	.....	29	Downey
Barnum, William Floyd	<i>Chem</i>	49	Gardena
Baruch, Bertha Hirsch	<i>Phil</i>	98	Los Angeles
Battin, William Raymond	.....	.....	Phoenix, Arizona
Beane, Gertrude Emily.....	.....	50	Los Angeles
Bell, Percy Merton.....	<i>Chem</i>	14	Long Beach
Best, Oliver Warren.....	<i>History</i>	54	Los Angeles
Best, Sarah Edna.....	.....	.....	Los Angeles
Biddle, Clyde Riggs.....	.....	.....	Centerville, Iowa
Boardman, Esther Carver	<i>Greek</i>	96	Los Angeles
Bovard, Warren B.....	.....	10	Los Angeles
Breitkreutz, Emil Wm.....	<i>Eng'r</i>	119	Wausau, Wis.
Brown, Walter Arthur.....	.....	.....	Redlands
Brown, Zula Frances.....	<i>History</i> ..	53	Los Angeles
Brunton, Delbert.....	.....	.....	Compton

A. B. Stanford University

Buckmaster, Guy W.	<i>Chem.</i>	65	Whittier
Burek, Stanislaus Leo.....	.....	12	Wausau, Wis.
Burns, May Warren.....	.....	.....	Denver, Colo.
Butler, Joseph Henry .....	.....	9	Downey
Byrer, Clarence W. ....	.....	.....	Los Angeles
Carnes, Welcome D.	<i>History</i>	55	Los Angeles
Carter, Marie Ladd	<i>History</i>	104	Jefferson, Iowa
Carter, Ray Alden	<i>Chem.</i>	45	Los Angeles
Casner, Emma Atlanta ...	<i>Zoology</i>	100	Santa Paula
Chandler, Ida Marian .....	.....	14	Los Angeles
Chandler, Mamie Ethel....	<i>Latin</i>	107 ...	Warsau, Indiana
Chapin, Ned Leroy.....	.....	.....	Pasadena
Clark, Effie May.....	.....	21	Riverside
Clark, Ralph Waldo.....	.....	19	Los Angeles
Clark, Stephen Hart.....	.....	17	Los Angeles
Cliff, Lulu.....	<i>English</i>	28	Oskaloosa, Iowa
Comer, Fred Jabez.....	.....	.....	Palms
Comstock, Solomon Boyd .....	.....	16	Los Angeles
Conger, Madge Eva	<i>French</i>	12	Los Angeles
Cook, Orwyn Wesley Edgar	<i>History</i>	51	Los Angeles
Cooper, Maurice Edwin....	<i>Phil.</i>	78	South Pasadena
Copper, Charles Arthue....	.....	19	Los Angeles
Crall, David Edwin.....	.....	34	Los Angeles
Crooker, Leon James.....	.....	4	Clearwater
Crumrine, Charles Edward .....	.....	.....	Hemet
Curl, Robert Latta.....	.....	9	Los Angeles
Custin, Guy.....	.....	.....	Collinwood, Ohio
Deniston, Luther Wm. ....	.....	3	Los Angeles
Dick, Jennie.....	<i>German</i> ..	36	McPherson, Kansas
Doughty, Vivian Ellen .....	.....	.....	Richmond, Indiana
Edwards, Frank C.....	.....	11	Los Angeles
Ernist, Lawrence Cole.....	.....	.....	Long Beach
Evans, George Mark.....	.....	.....	Santa Ana
Faull, Adina May.....	.....	29	Los Angeles
Ferguson, James Duncan	<i>Chem.</i>	119	Globe, Arizona
Flick, Frank Lehman.....	.....	.....	Los Angeles
Francis, Mabel.....	.....	.....	Escondido
Fugii, Sei.....	.....	.....	Yamaguchi, Japan

Gallup, Luke L.....			Santa Ana
Garcia, Ernesto Benito	<i>History</i>	64	Los Angeles
Garrett, Mazie Fullman		34	Los Angeles
Gaston, Minnie Maria.....	<i>History</i>	34	Riverside
Gay, Leslie F., Jr.....			Los Angeles
Glover, Kelso Reavis.....		11	Los Angeles
Goetz, William Henry.....	<i>Chem.</i>	20	Los Angeles
Goodwin, Willard.....		3	Los Angeles
Hadley, Edwin Roy.....	<i>Zoology</i>	107	Los Angeles
Haigler, Charles Alvin.....		12	Tempe, Arizona
Hall, Bertha Vera.....	<i>English</i>	8	Los Angeles
Halloran, Edna Parthenia		5	San Diego
Hamilton, William James	<i>Chem.</i>	45	Goleta
Hamlin, Burton.....	<i>History</i>	80	Los Angeles
Hasson, Edwin Galen.....	<i>Spanish</i> ..	35	Buena Park
Heil, Mildred Elizabeth.....	<i>Zoology</i>	114	Santa Ana
Henderson, Edward Alex.	<i>Chem.</i>	113	San Luis Obispo
Hess, Hope.....			Los Angeles
Hirasawa, Kunitoki.....	<i>Phil.</i>		Los Angeles
Hobson, Maud Adel.....	<i>English</i>	30	San Fernando
Hockett, Harold Brown		18	Whittier
Hoegerman, Rose Charlotte		22	Los Angeles
Hoke, Verna May.....		21	Los Angeles
Hollingworth, W. Aimee....	<i>English</i>	107	Anaheim
Homer, Charles Henry		5	Los Angeles
Hubbard, Catherine P.	<i>German</i>	28	San Fernando
Hubbard, John King.....	<i>History</i>	107	Los Angeles
Hunt, Carl Williams.....	<i>Math.</i>	54	Los Angeles
Hursey, Catherine Jane		7	Compton
Hutt, James H.....			Whittier
Jeffers, John Robinson		14	Manhattan Beach
A. B. Occidental College			
Jones, Clarence Edward		16	Los Angeles
Joslin, Phoebe Ione.....		9	Los Angeles
Knotts, Charles Elmer.....		13	Los Angeles
Knudsen, Merry Kay.....	<i>French</i>	82	Los Angeles
Koebig, Walter Christian			Los Angeles
Kuster, Edward G. (Mrs.)		47	Los Angeles

Layne, Newton Mead.....	<i>English</i> ...	35	.....	San Diego
Lennox, Walter John.....	<i>German</i>	108	.....	Los Angeles
Livoni, John Peter.....	<i>History</i> ...	62	.....	Los Angeles
Locke, Charles Edwin .....	.....	5	.....	Los Angeles
Lockhart, Love Ethel .....	.....	.....	.....	Los Angeles

Malcom, Roy.....	<i>History</i> ...	108	.....	Long Beach
Marnell, Edward Nelson....	.....	.....	.....	Los Angeles
McCourt, Teresa Lorella ..	.....	.....	.....	Los Angeles
McNeil, Diana Bralah .....	.....	12	.....	Los Angeles
Mealey, Roy Everett.....	.....	11	.....	Los Angeles
Mee, Thomas Henry.....	.....	6	.....	St. Helena
Merrill, Monroe.....	<i>Chem.</i>	54	.....	Hollywood
Miller, DeMont George	<i>Chem.</i>	44	.....	Los Angeles
Miller, Jesse Ray.....	.....	.....	.....	Los Angeles

A. B. University of Southern California

Miller, Read Erskin.....	<i>Chem.</i>	15	.....	Los Angeles
Montgomery, Eugenia L.	<i>Zoology</i> ...	38	.....	Los Angeles
Montgomery, Wayne W. ..	.....	.....	.....	Los Angeles

Nichols, Grace Margaret....	.....	7	.....	Naperville, Ill.
Nicholson, John Hugh .....	.....	.....	.....	Edgefield, S. Car.
Nishimoto, Itsuzo.....	.....	.....	.....	Tokio, Japan
Nordahl, Henry Alfred	<i>Math</i>	45	.....	Escondido

Ohashi, Yasu Nosuke.....	<i>Econ.</i>	72	.....	Los Angeles
Okitsu, Takeshi.....	<i>History</i> ...	15	.....	Nagasaki, Japan
Okubo, Unosuke.....	.....	.....	.....	Los Angeles
Oliver, John.....	.....	.....	.....	Santa Paula

A. B. University Southern California

Osugi, Kanji.....	<i>History</i> ...	14	.....	Los Angeles
Oswald, Christian Lester ..	.....	10	.....	Los Angeles

Palmer, Janie Elizabeth ..	.....	.....	.....	Compton
Parmelee, Clara Elois	<i>English</i> ...	45	.....	South Pasadena
Payton, Mabelle Fern	<i>German</i> ..	59	.....	Riverside
Perkins, Ethel Mary .....	.....	17	.....	Ames, Iowa
Perkins, Genevieve Hazel..	.....	17	.....	Ames, Iowa
Perry, Irvin David .....	.....	.....	.....	Los Angeles

A. B., A. M., Stanford University

Phillips, Leah A.....	.....	13	.....	Los Angeles
Pomfret, Mattie J.....	<i>Zoology</i> ...	116	.....	Wasco

Pope, Mildred Herbert	15	Celina, Ohio
Porter, Archie Wm. Noel... <i>History</i> ...	43	Los Angeles
Pottenger, Joseph Elbert <i>Zoology</i> ...	114	Monrovia
Pratt, Marguerite Eugenia	15	Los Angeles
Priestly, Herbert Ingram .....	.....	Wilmington
Ph. B. University of Southern California		
Prior, Percy Harley.....	15	San Jacinto
Reberger, William.....	20	Los Angeles
Reed, Frank William	<i>Chem.</i> 45	South Pasadena
Reeve, Theresa Frances ... <i>Latin</i>	44	Los Angeles
Richardson, Faith H. <i>Latin</i>	48	Santa Paula
Riner, Grace Lucile	<i>History</i> 62	Los Angeles
Ritchey, Mattie.....	16	Santa Ana
Rodenberg, Wilhelmine M. <i>Greek</i>	106	Los Angeles
Ross, Fred Harmon.....	.....	Los Angeles
Runyon, George Orien <i>Chem.</i>	37	Arroyo Grande
Rush, Louise Frances	15	Los Angeles
Scott, Charles Holmes.....	.....	Ventura
A. B. University of Southern California		
Seymour, Eleanor C. ....	.....	Los Angeles
M. D., A. B., University of Southern California		
Shaw, Dora Drake..... <i>Oratory</i> ...	75	Los Angeles
Shaw, Herschel..... <i>Zoology</i> ...	.....	Los Angeles
Sheats, Lura Marie.....	17	Tustin
Shiomi, Arataro.....	.....	Yanai, Japan
Sigler, Grace Evangeline....	13	Westminster
Sinclair, Daisy..... <i>Oratory</i> ..	41	Los Angeles
Smith, Rhuamah May.....	16	Morrisville, Vermont
Spangler, Glen Harwood... <i>Chem.</i>	21	Los Angeles
Speicher, Ernest.....	.....	Los Angeles
Speicher, Florence C.....	35	Los Angeles
Speicher, Robert A.....	8	Los Angeles
Spencer, Wendell Johnson	8	Los Angeles
Swearingere, Marie (Mrs.) .....	.....	Los Angeles
Taylor, Joseph Leon..... <i>History</i> ...	38	Los Angeles
Taylor, Mabel Renee.....	18	Los Angeles
Thornton, Alta Evelyn.....	47	La Mirada
Thornton, Corliss Russell.. <i>History</i> ...	111	La Mirada

Thornton, Ethel.....	.....	12	.....	La Mirada
Thorpe, Harvey Lasher	<i>Zoology</i>	51	.....	Los Angeles
Twining, Harry La Verne..	<i>Chem.</i>	12	.....	Los Angeles
Vann, Harold King	<i>History</i>	105	.....	Redondo
Van Trump, Jessalyn G.....	.....	20	.....	Los Angeles
Walker, John Douglas.....	.....	68	.....	Los Angeles
Walker, M. Marie.....	<i>German</i> ..	14	.....	Denver, Colorado
Wallace, Ella Irene.....	.....	.....	.....	Los Angeles
Weber, Clarence Edward ..	<i>Chem.</i>	28	.....	Los Angeles
Weaver, Royal Arthur	<i>History</i>	105	.....	Los Angeles
Webster, Leila Ione.....	<i>Zoology</i>	113	.....	Los Angeles
Welsh, Robert Higgins .....	.....	.....	.....	Los Angeles
Westrem, Christine.....	<i>English</i>	39	.....	Alhambra
Willett, Harriet Mary	<i>Latin</i>	107	.....	Los Angeles
Willett, Hugh Carey.....	<i>Latin</i>	77	.....	Los Angeles
Wilson, John Oliver.....	.....	40	.....	Los Angeles
Wilson, Maude Alice	<i>Zoology</i>	69	.....	Phoenix, Arizona
Wilson, Ralph Archie .....	.....	16	.....	South Pasadena
Wilson, Ruth E.....	.....	21	.....	Mitchell, S. D.
Wood, Laura Mae.....	.....	16	.....	Whittier
Woods, Richard Philips ....	.....	13	Surgeons Hall, Penn.	
Yebihara, Shichiro.....	.....	7	.....	Los Angeles

THE COLLEGE OF MEDICINE

FIRST YEAR

Allen, C. S.	Koebig, W. C.
Choate, J. L.	Larson, H. V.
Cocke, J. V.	Lindenbaum, M.
Cowan, J. R.	McKnight, H. F.
Cynn, H. H.	Mordoff, C. E.
De Baron, M.	Osburn, P. P.
Ellis, M.	Patrick, L.
Foss, J. D.	Peters, L. M.
Frankenstein, A. F.	Rosenkranz H. A.
Granger, A. S.	Scott, A. J.
Hill, W. B.	Seckler, H. R.
Hiller, A. W.	Skinner, A.
Iredale, G. W.	Stoddard, H. F.
Kimmell, E. W.	Thorpe, H. L.
Kinney, M. A.	

SECOND YEAR

Bridle, M. H.	Kinney, L. C.
Cahen, C. G.	Macleish, A. C.
Cahen, E.	Magee, A. C.
Cook, C. W.	Matthews, E.
Eversole, H. O.	Newcomb, R. H.
Fergusson, P. E.	O'Brien, J. J.
Finley, T. G.	Pascoe, E. R.
Frank, M. A. S.	Rheinschild, A. P.
Graham, C. M.	Ross, Karl
Graves, S. E.	Sawyer, E. H.
Hastings, S. W.	Simonds, P. E.
Holleran, J.	Tebbetts, J. H.
Horstman, E. H.	Ulyott, T. H.
Hull, F. E.	Waller, G. P.
Johnson, J. A.	Webber, W. L.
Jones, A. H.	

THIRD YEAR

Abele, T. G.	Lowman, C. L.
Atkinson, C. C.	Martin, M. L.
Beardslee, A.	Morris, M. M.
Brown, A. R.	Prigge, M. M.
Brunson, L. M.	Riggins, P. B.
Buck, C.	Schroeder, L. A.
Caley, D. M.	Silversmith, E. M.
Chaffin, R. C.	Skinner, G.
Crawford, T. O.	Standlee, C.
Elliott, C. C.	Sundin, P. O.
Huntoon, H. A.	Trevelyan, J. H.
Hutchinson, W. J.	Wardell, C. E.
Jackson, A. H.	Wickett, W. H.
Kane, M. H.	Wright, C. A.

FOURTH YEAR

Ball, J. T.	Ledyard, C. C.
Barnhart, W.	Mattison, E. G.
Bristol, S. A.	Meharry, J. S.
Chamberlain, H. H.	O'Reilly, T. W.
Crowell, I.	Patton, E. E.
Decker, C. W.	Peery, J. R.
Dudley, W. O.	Phelps, C.
Dwire, F. B.	Reed, W. J.
Fairchild, F. D.	Seabolt, M.
Fales, J. E.	Sherer, W. W., Jr.
Farnsworth, D. C.	Sleeper, K. R.
French, J. R.	Smiley, W. J.
Ham, J. G.	Smith, H.
Hipsh, J. F.	Thompson, H. A.
Kinne, E. F.	Winter, A. H.
Knox, G. A.	Wood, W. A.

SPECIAL

Earle, C. W.	Swearington
Hoshino, C.	Tanaka, J.
Potterger, J. E.	Whitcomb, C. R.
Shiniza, T.	

THE COLLEGE OF PHARMACY

JUNIOR YEAR

Baker, F. G.	Lewis, Miss F.
Bartley, J. M.	Lund, H. W.
Berger, A. A.	Melcher, F.
Besser, G.	Metzger, E.
Blumberg, D.	Noxon, H. L.
Chamberlain, F. E.	Schinker, H. F.
Exline, Miss I. R.	Seery, F. H.
Fuller, H. F.	Smith, G. R.
Gilson, E. D.	Thomas, J.
Graves, R. B.	Waggoner, L. B.
Johnston, C. C.	Zika, J. F.
Killian, A. F.	

THE COLLEGE OF DENTISTRY

SENIOR YEAR

Bailie, H. C.	Kanouse, Geo.
Boeckman, Henry F.	Kincaid, C. F.
Boege, Jno. H.	Lane, R.
Brown, A. Ralph	Lockwood, R. C.
Burdette, Leo W.	McBean, Chas.
Clapp, S. W.	McBean, Wm. H.
Crandall, G. W.	McCoy, Jas. D.
†Darby, Arthur L.	*McDonald, F. S.
Darby, J. H.	McKenzie, T. W.
*Fitzgerald, Fred	Nichols, L. E.
Foster, W. M.	Oates, James A.
Goff, E. E.	Rossiter, V. A.
Holcomb, C. L.	Roudebush, L. F., D. D. S.
*Hopkins, J. C.	*Somerville, John A.
Houston, R. B.	West, Alden J.
Justice, J. Amos	

JUNIOR YEAR

Bean, Ray	†Maynard, Mrs. Edith
Benny, C. R.	McCullom, B. B.
Burbeck, W. R.	Osenburg, E. E.
Burch, Roy A.	†Owen, F. G.
Caldwell, Arthur	*Ramirez, J.
Curtis, Paul A.	Richardson, G. L.
Engstrom, Carl O.	Shiina, Tatsuzo
Gum, E. S.	Skinner, Reginald B.
Harwood, Harry B.	Spicer, Percy F.
Kelsey, Mark	Taggart, J. L.
Kilburn, C. M.	Whelan, Wm. R.
Lawler, C. E.	White, R. W.
Magill, J. C.	Williams, C. E.

* Irregular. †Not in attendance.

FRESHMAN YEAR

Alderson, Chas. M.	Gresham, C. M.
Baldwin, E. J., Jr.	Johnson, Edwin A.
Barney, W. A.	Lord, Alexander N.
Bird, Chas. W.	Lytle, W. M.
Brenner, A. J.	Merchant, David N.
Brown, Ernest H.	†Miller, Mary
Buck, Claude E.	Odell, G. E.
Butler, E. I.	Osenburg, F. L., B. L.
Cresmer, C. J.	Peck, J. E.
Day, L. L.	Prince, Wm. E.
Erwood, Howard	Richardson, F. R.
Farnham, H. H.	†Ross, Fred A.
Finley Edwin S.	Schildwater, Fred D.
Gardner, I. P.	Van Schoick, Chas. H.
Graham, Fred A.	Voorhees, Perry
Gregg, Robt. J., Jr.	

† Not in attendance.

THE COLLEGE OF LAW

FRESHMAN YEAR

Andrews, Wm. E.	Horn, Oscar L.
Barrett, Elliott H.	Hutt, Jas. H.
Borden, Cecil A.	Kerns, Jas. Rollins
Brown, Edgar K.	Lucey, M. H.
Burch, Geo. W.	McClain, J. Thos.
Blakesley, Raphael H.	McCoy, Lon S.
Bonynge, Walter A.	McGowan, Leo H.
Cardwell, Lawrence L.	McKnight, Jas. S.
Chandler, M. W.	Marnell, E. Nelson
Chisholm, Jos. Francis	Norton, R. S.
Clark, Geo.	Painter, Robert A.
Clark, Oliver	Pardue, Samuel Rollins
Clayson, Walter S.	Park, Eugene
Dickison, Cecil N.	Parks, Henry L.
Dutton, Roger C.	Powell, Lewis M.
Dyar, Guy	Richards, Chas. H.
Edwards, D. W., Jr.	Richards Frank W.
Evans, L. A., Jr.	Rixon, Chas., Jr.
Freeman, Wm. A.	Shaw, Wm. Herbert
Forbes, Frank S.	Silberberg, Mendel B.
Fry, Wm. E.	Snell, Wm. Arthur
Gallup, Luke L.	Spencer, Thos. J.
Goodwin, Henry P.	Stayton, Wm. E.
Hart, Winslow C.	Titus, Miss Alice L.
Hess, Bruce	Weaver, Geo. N.
Hogan, Jas. P.	White, Wm. S

JUNIOR YEAR

Browne, Nat. B.	Horton, Geo. Ray
Campbell, Kemper B.	Johnson, Franklin F.
Doran, Wm. C.	Kelch, Geo. H.
Galbreth, Morgan	Martz, August J.
Haas, John B.	McDill, G. W.
Hammon, Percy V.	McGowan, Thos. J. K.
Higgins, Thos. P.	McHargue, Robt. B.

McMahon, J. J.	Wall, Wm. Dillard
Montgomery, Plummer H.	Weisel, Hans V.
Palen, John C.	White, Phillip H.
Roser, Henry H.	Willis, Wm. H.
Underhill, Miss Clara V.	Wilson, Miss Emily May
Veitch, Arthur L.	

SENIOR YEAR

Binford, L. B.	Lovett, E. S.
Bohan, E. R.	McCahill, Samuel S.
Evans, L. A.	McDowell, E. R.
Fosdick, Archibald M.	Miller, Lloyd L.
Gaines, Wm. A.	Shibuya, Chas.
Jarecki, R. W.	Wilson, Chas.
Lickley, Ernest J.	

THE COLLEGE OF MUSIC

Anderson, Nardo	Ferguson, Elsie
Allen, Perlina	Fortney, Dora
Allison, Edith	Fowler, Hazel
Amis, Joyce	French, Blanch
Arnett, Lillian	French, Constance
Bacon, Mrs. L. L.	Gail, Carrie
Barts, Miss M. L.	Garth, James
Ball, Adelaide	Gates, Gladys
Barr, Mamie	Goodman, Shirley
Barkley, Adelaide	Gregg, Blanche
Barron, Flora	Hall, Kathryn
Bess, Fannie	Hampton, George
Best, Edna	Hanna, Edna
Bishop, Mabel	Harper, Cora
Bowen Miss H. M. S.	Hawley, Maude
Bridwell, Walter	Hearne, Hazel
Brown, Frances	Hickman, Mabel
Bunker, Hazel	Hill, Hazel
Butterfield, Mr. C. E.	Hoffman, Grace
Call, Eva	Hubbard, Mr. J. K.
Canfield, Marcia	Hunt, Mrs. Edith
Chapman, Arthur	Hunter, Fannie
Clark, Christine	Jacobs, Clara
Clever, Mabel	Jennison, Girlie
Collison, Clyde	Johnston, Inez
Cook, Edith	Jones, Violet
Cook, Maude	Judkins, Hazel
Cooper, Mrs. N. R.	Junkin, Mrs. F. N.
Cutler, Marion	Kendig, Hazel
Daly, Elouise	King, Elsie
Dinsmore, Lura	Lacy, Reta
Dinsmore, Marguerita	LaRue, Dorothy
Draper, Mollie	Leighton, Mr. L. E.
Edwards, Rev. Frank	Lewis, Sadie
Edwards, Mrs. Frank	Linn, Helen
Edwards, Opal	Lipps, Mrs. Lorah
Elliott, Mrs. H. G.	Longwell, Margret

Lynn, Edith
Lynn, Inez
McBride, Maud
McClure, Mrs. Anna
Macgill, Pearl
MacGregor, Mrs.
McInnes, Millie
McKinnon, Evelyn
Macloskey, Pearl A.
MacMillin, Mauneena
McNabb, Anna
McNabb, Margaret
Miller, Maud
Miller, Ruby
Mitchell, Margery
Murray, Edith
Nicholls, Florida
Nicholls, Laura
Neff, Essie
Neil, Josephine
Obear, Katharine
Patton, Madge
Paulin, Cliff
Peck, Ethel
Penn, Oma
Prince, Mrs. John R.
Prior, Clarence
Prior, Herman
Pixley, Florence
Reaves, Bessie
Redgrave, Florence
Reese, Erna
Reichenbach, Ruth
Riner, Grace
Rose, Pearl
Rush, Louise
Sanderson, Addie

Saunders, Katharine
Savage, Violet
Schalk, Madge
Schwartz, William
Scott, Mary
Shankland, Miss Sarah
Shartle, Flora
Sheldon, Mr. R. M.
Shepherd, Grace
Shrader, Ethel
Skeele, Franklin
Simpson, Mrs. Eleanor
Stabler, Mrs. J.
Stalker, Miss E. K.
Steffin, Marie
Stump, Blanche
Taylor, Mrs. H. N.
Tift, Mrs. A. M.
Troy, Mrs. L. W.
Turner, Marie
Walker, Mrs. J. D.
Walker, Marie
Walter, Dottie
Walter, Jennie
Walter, Mabel
Webber, Mrs. W. T.
Welfer, Vantia
White, Mrs. Estelle
White, Louise
White, Marion
Winters, Laura
Williams, Bernardine
Williams, Cecile
Woods, Walter
Wright, Elsie
Wright, Mary
Yerxa, Myrtle

THE COLLEGE OF ORATORY

Abbott, Louise	Hollister, Bertha
Addison, Edna	Hubbard, John K.
Adkinson, Katherine	Jacobs, Mary
Anderson, Mary Elaine	Jeffers, John
Ashcraft, Edwin P.	Kelly, Clara
Behlow, Irwin W. M.	Mannell, Harry R.
Best, Oliver	McDowell, E. R.
Botts, Cora I.	McKnight, James
Bovard, Edna	Neff, Essie M.
Brown, Edgar	Newcombe, Jessie
Brown, Fred	Park, Eugene
Buckanan, Genevieve	Pitner, Helen
Butler, Henry	Poplin, Portia
Butler, Joseph H.	Pratt, Evelyn
Cardwell, Lawrence	Pratt, Marguerite
Case, Pauline	Ritchey, Mattie
Clarke, Vernie	Rose, Hazel
Cook, Orwyn	Schwentker, Carrie
Cooper, Maurice	Scott, Benjamin
Cory, Eleanor	Shartle, Alberti
Crall, Edwin D.	Shaw, Dora Drake
Esterbrook, Florence	Silberberg, M. B.
Ferguson, James	Sinclair, Daisy
Fredenburg, Mary	Speicher, Maude
Fruman, Wm. A.	Taylor, Joseph
Glass, Cora	Thorne, Emily
Goodwin, Henry	Titus, Alice L
Hamlin, Burton	Uber, Edna
Hawley, Maude	Wenk, Sarah
Hogan, Ethel	Woodhead, Florence
Holder, Edith	

PRIVATE

Abbott, Louise	Neff, Essie M.
Addison, Edna	Pitner, Helen
Best, Oliver	Pratt, Evelyn
Bohan, C. R.	Pratt, Marguerite
Campbell, Kemper B.	Ritchey, Mattie
Cory, Eleanor	Roberts, Geo. W.
Crall, Edwin D.	Ross, Fred
Del Valle, Lucretia	Rundell, John
Esterbrook, Florence	Schwentker, Carrie
Garcia, E. B.	Shartle, Alberti
Hamlin, Burton	Shaw, Dora Drake
Henderson, Edward A.	Sinclair, Daisy
Hollister, Bertha	Smith, Eva Mae
Hubbard, John K.	Smith, Mabel Ellen
Kelly, Clara	Speicher, Maude
Malcom, Roy	Swain, Almah
McDowell, E. R.	White, Dorothy
Mellott, Ethna	White, Marjorie

THE COLLEGE OF FINE ARTS

Alexander, Max	McMillan, Howard
Anderson, S. J.	Macneil, Adela
Attwood, Flora	Martinette, Alda
Babcock, Lyle	Moore, Bruce
Bedford, J. Berna	Myers, W. L.
Blumve, Edna	Nichols, Lala May
Botts, Carrie L.	Parkins, Helen
Carpenter, Dessie	Pitcher, Rose
Cook, Alma May	Repine, Phebe
Dausen, Anna Marie	Rockwell, Jessamine
Dando, A. B. C., Mrs.	Ross, Donald A.
Dasselbalch, Gertrude	Shoemaker, Clarice
Dane, Aletha	Slinkand, R. R.
Davidson, Ruth	Smith, Ruby F.
Dolway, Elsie	Sovenson, Hilda
Duey, Winifred	Sovenson, Katherine
Fisher, Rachel	Sutman, Henry, Mrs.
Foster, Hattie	Tottenham, Arley G.
Gardner, Alva	Treet, J. R.
Garman, M. L., Mrs.	Tritt, C. H.
Godfrey, Myrtle	Vernon, Arthur G.
Greenfield, Edith, Mrs.	Waugh, J. C.
Griffin, Wesley A.	Wells, Ara
Hollister, Bertha	Wiley, Arabella
Kirk, Birdie	Williams, Lillian J.
Langworthy, Mrs.	Winter, Flora
Larue, Logan	Wood, Ulva
Lee, Mamie	Yoakum, Sueenie L.
Lowry, Drexley	Zucker, Anna

THE PREPARATORY SCHOOL

FIRST YEAR

Anderson, Violet	Longshore, Milton Mahlou
Arima, Matsutaro	Mallan, William Edward
Ball, Bessie	Marshall, Harry S.
Bassett, Helen Requa	Matsunaga, Harnichi
Beane, Lenore Salisbury	Mayers, Ione
Behlow, Irwin William	McDaniel, Thomas Theron
Behlow, Robert Roscoe	McKee, Brounson Henry
Blakesley, Thomas Alvin	McQuigg, Harry Martin
Buffington, Olive Lay	Norton, Lyman F.
Calvin, Edward Hill	Norton, Vere Radir
Carter, Jessie Merle	Penn, Oma
Carver, Joseph Weitz	Perkins, Laura
Chritton, Clarence Elmer	Phillips, George Earle
Cook, Hazel Irene	Pierce, Charles Leonard
Dennis, Scott Perry	Pratt, Evelyn Ruth
Duignan, Kittie Fern	Reavis, Clara Elizabeth
Fellows, Florence May	Reese, Mary Elizabeth
Fisher, Rachel Alberta	Reiche, Charles Ferdinand
Fisher, Ruth Lula	Rindge, Hastings Frederick
Fogleman, Glenn Oliver	Roberts, George Wesley
Franklin, Charles Griffin	Roch, Victor Luman
Gay, Ira Fessenden	Schwartz, Anna Dale
Halbriter, Percy Harold	Seeley, Roy Clinton
Hamilton, Charles Sumner	Seever, Eunice Austyn
Harper, Cora Minnie	Sheldon, Raleigh Morton
Henderson, Andrey Claudine	Shintaro, Kinoshita
Howell, Jessie Lea	Shute, Eugene Henry
Hummel, Edward John	Slate, Nathaniel Oliver
Hunter, Fanny ..	Slatter, Joseph McGue
Hunter, Graham Burgers	Snyder, Gaylord Kenyon
Johnson, Jesse Paul	Snyder, Edward Charles
Johnson, Milton Earle	Spencer, Howard Herbert
Johnson, Pauline Celestine	Stone, Robert Edward
Jones, Frances	Stranberg, Henry Herman
Kein, Emily Wilemina	Thompson, Rip Victor

Thorne, Ina Gertrude
 Thorne, Mildred Eliza
 Wadsworth, Adda Rosa
 Wadsworth, Jennie Phillips
 Walters, Hazel Belle

Ward, Irtis Leah
 Werber, Albert William
 Werner, Oscar E.
 White, Merton Oscar
 Wilson, Maude

SECOND YEAR

Amis, Annie Joyce
 Bell, James Edwin
 Brode, Alverda June
 Burmeister, Laura Elise
 Burritt, Winifred
 Carter, Irene Louise
 Cass, Louis
 Chapin, Don F.
 Clarke, Vernie E.
 Collins, Cleo Fredonia
 Cronemiller, Flora May
 Dowds, Roy W.
 Ferguson, Cassie Louise
 Ginther, Helen June
 Hummel, George Philip
 Jack, Norman
 Johnson, Inez Aline
 Judkins, Hazel
 Klitten, Carl Andrew
 Knoch, Bessie Dorretta
 LaRue, Dorothy
 Lennox, Howard

Long, Faye Ellen
 Lucas, Lawrence Valentine
 Mannell, Harry Richard
 McCoy, John Rush
 McMillan, Marie Merrill
 McMillan, Carrie Mauneena
 Meyers, Edith Marie M.
 Montgomery, Lorena
 Myers, Jessie Leith
 Nave, Junia
 Oertly, Bertha Elise
 Prince, Claude Raymond
 Radir, Paul Leininger
 Riechers, Bertha Louise
 Rivers, Lilian Frances
 Rose, Hazel Emalene
 Sigler, Paul Edwin
 Taylor, Elizabeth
 Thompson, Edward Griffin
 Thorne, Mary Marguerite
 Wright, Ruby Elebreth
 Ziegler, Ethel Grace

THIRD YEAR

Abbott, Lula Emilie
 Adkinson, Katherine Wiley
 Barnhart, Percy
 Bayly, Roy D.
 Beane, George Vernon
 Blackburn, Porter Conrad
 Bridwell, Walter Clay
 Bovard, Edna Georgia

Brown, Frederic Ramoynd
 Coombs, Manvel Homer
 Ferguson, Mary Maud
 Fredenburg, Mary Pauline
 Funk, Foss Simpson
 Glass, Cora Julia
 Griffin, Alice Marguerite
 Griswold, Samuel Perry

Hollister, Bertha Louise
 Hough, Margaret Alice
 Jacobs, Mary Blanche
 McEndree, Nina Fay
 Newcomb, Jessie Eva
 Noll, Roy
 Parmenter, Charles Leroy
 Poplin, Portia
 Prior, Clarence Edward
 Schwartz, William Leonard
 Scott, Benjamin David

Scott, Homer Davis
 Smith, Eva Mae
 Speicher, M. Maude
 Stebbins, Gertrude
 Thorne, Emily Agnes
 Uber, Edna Radcliffe
 Wallace, Clark Kenneth
 Webb, Raymond Prescott
 Wenk, Sarah Elizabeth
 Wilson, Irene

FOURTH YEAR

Bien, Beulah Vernon
 Bowers, Chester Herbert
 Buchanan, Genevieve
 Burneister, Emma
 Cass, Frank Tufts
 Carmichall, Edw'd Washington
 Clay, Thomas Lyman
 Cogswell, Fred Allen
 Cree, Chester
 Deputy, J. Watson
 Elliott, Karl
 Esterbrook, Florence Fern
 Francis, Leon Sutton
 Gardiner, Margaret
 Harriman, William Ruddy
 Hawley, Maude Lawrence
 Hogan, Ethel Josephine

Holder, Edith Marian
 Hudson, Arthur
 Munson, Arthur Case
 Owen, Theodore Powell
 Poindexter, Mabel Mildred
 Prior, Guy Ralph
 Prior, Herman Albert
 Rundell, John Thomas
 Shenk, Susie
 Stump, Blanche Elizabeth
 White, Charles J.
 Willett, Grace Alice
 Woodhead, Blanche Ellen
 Woodhead, Florence Miriam
 Woodhead, Lora Mae
 Zander, Lucille

SPECIALS

Bodkin, Florence Verne
 Botts, Cora Imogene
 Buren, George Hristow
 Crippen, Ransom Everest
 Dennis, Jessie May
 Gibson, Alva
 Goodfellow, Hadassah Eliza
 Hill, Ruth Hazel
 Jones, Richard Girard
 Kelley, Clara Lenore
 King, Marie Annie

Kurachi, Shuzon
 Marshall, Grace
 Ochoa, Juan
 Pitner, Helen
 Schwentker, Carrie M.
 Sherwood, Guy C.
 Smith, George Grover
 Stafford, Florence
 Tasaka, Hideji
 Williams, Gertrude W.

THE COMMERCIAL SCHOOL

Adkinson, Katherine
Anderson, Mary
Bennett, Charles A.
Breitkreutz, E. W.
Bunker, Frank
Calvin, Ed.
Cass, Frank
Comstock, Earle L.
Dennis, Scott P.
Edmonds, Susie E.
Fisher, Ruth
Gibson, Alpha
Gibson, Alva
Ginther, Helen
Goto, Gosaku R.
Haigler, Chester
Harper, Cora
Henderson, John W.
Hillhouse, Mary
Hillhouse, Willie A.
Luy, Richard L.
Marshall, Harry S.

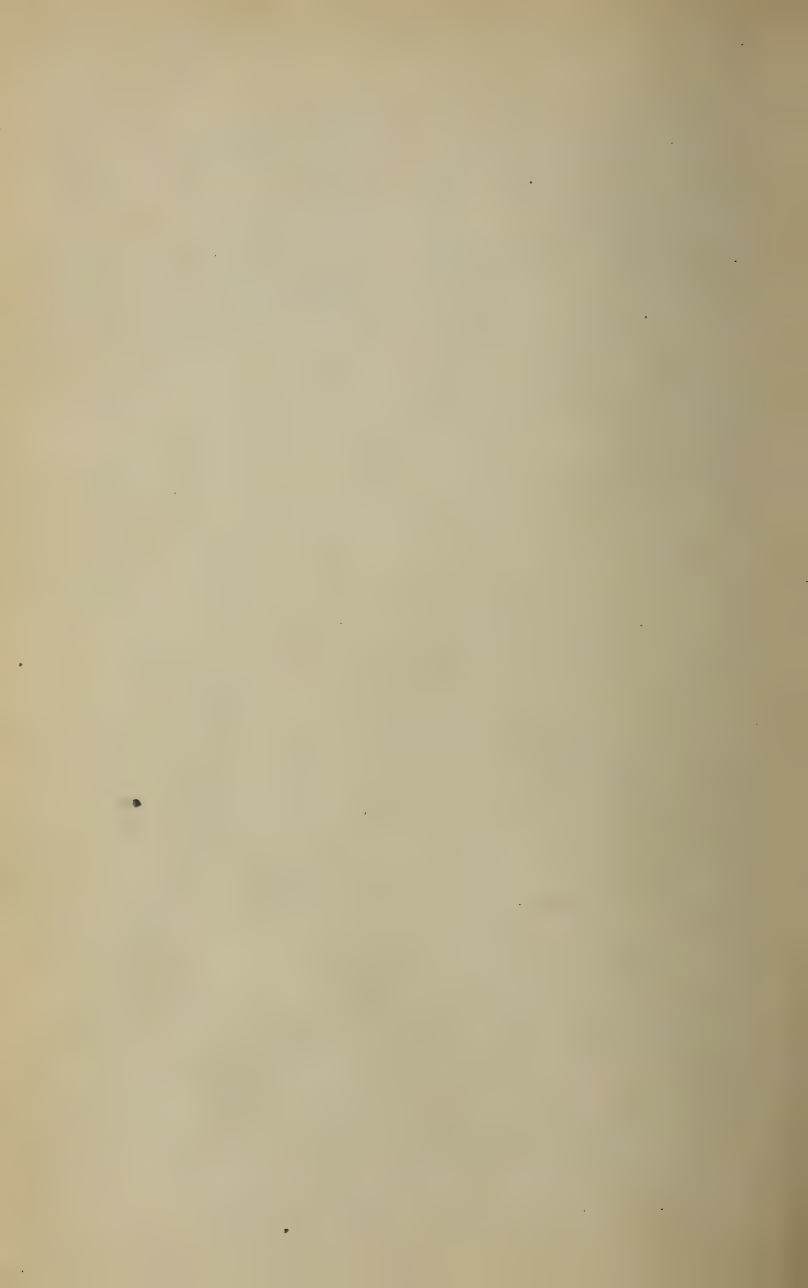
Munson, A. C.
Nast, Frieda M.
Ochoa, Juan
Osborn, Neville
Parker, E. M.
Perkins, Laura
Peterson, Tillie
Rice, Virginia
Reavis, Clara
Rowley, Nathan E.
Shute, Eugene E.
Stokes, Will
Stone, Robt. E.
Strickler, Kennedy S.
Tucker, Jay G.
Ware, Wilfrid
Watson, Harry
Westover, Clarence W.
Wilson, James
Wright, Ruby E.
Yerxa, Myrtle M.

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Year Book for 1906-1907

With Announcements For
1907-1908

Published Quarterly by the University

BULLETIN No. 2


MARCH, 1907

UNIVERSITY
OF
SOUTHERN CALIFORNIA

YEAR BOOK FOR 1906-1907

WITH ANNOUNCEMENTS FOR 1907-1908

PUBLISHED QUARTERLY
BY THE UNIVERSITY



CALENDAR

1907

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CALENDAR

1907-1908

THE COLLAGE OF LIBERAL ARTS

1907

Sept. 16	Monday	}	Entrance examination and registration
Sept. 17	Tuesday		for First Semester.
Sept. 18	Wednesday		Instruction begins.
Nov. 28	Thursday	}	Thanksgiving Vacation.
Nov. 29	Friday		
Dec. 18	Wednesday	}	Christmas Vacation.
1908			
Jan. 1	Wednesday		
Jan. 30	Thursday		Day of Prayer for Colleges.
Jan. 31	Friday	}	Mid-year examinations.
Feb. 5	Wednesday		
Feb. 5	Wednesday		First Semester ends.
Feb. 6	Thursday	}	Entrance examinations and registration
Feb. 7	Friday		for Second Semester.
Feb. 10	Monday		Instruction begins.
Mar. 30	Monday	}	Spring Vacation.
April 5	Sunday		
June 11	Thursday	}	Final Examinations.
June 16	Tuesday		
June 14	Sunday		Baccalaureate Sunday.
June 16	Tuesday		Annual Meeting of Trustees.
June 18	Thursday		Commencement.
June 19	Friday		Alumni Reunion and Banquet.

THE UNIVERSITY.

The University of Southern California was founded in 1879, and was formally opened for students in October, 1880. It includes the following colleges each of which has a distinct faculty of instruction.

College of Liberal Arts,

36th Street and Wesley Avenue.

College of Medicine,

737 Buena Vista Street.

College of Pharmacy,

36th Street and Wesley Avenue.

College of Dentistry,

5th and Wall Streets.

College of Law,

3rd Street and Broadway.

College of Music,

36th Street and Wesley Avenue.

College of Oratory,

36th Street and Wesley Avenue.

College of Fine Arts,

Garvanza.

A Preparatory School and a Commercial School are also maintained in connection with the College of Liberal Arts.

FOUNDERS OF THE UNIVERSITY.

These names include all the names of the first Board of Endowment Trustees and the first Board of Directors, and hence may be fairly held to represent **The Founders**.

Asahel Morgan Hough; Edward Fallis Spence; Marion McKinley Bovard; Dr. Joseph Pomeroy Widney; G. D. Comp-

ton; Robert Maclay Widney; John G. Downey; P. Y. Cool; Charles Shelling; Edwin S. Chase; J. A. Van Anda; F. S. Woodcock; P. M. Green; Stephen C. Hubbell.

GOVERNMENT OF THE UNIVERSITY.

The government of the University is committed to a Board of twenty-one Trustees. This Board has the power to elect professors and other officers of instruction, to confer degrees, to manage the property of the University Corporation, and to determine the general policy of the institution.

The President has charge of the educational administration of the University and is chairman of the University Council. The principal administrative officers, other than the President, are the Deans, who have immediate charge of the work of the several faculties.

The University Council is a representative body consisting of the President, and the Dean and Secretary of each of the several colleges. It is the duty of the Council to carefully consider the courses offered by the several colleges with a view to increasing the efficiency and enlarging the range of University work, encourage original research and adjust all questions involving more than one of the colleges, and to advise the President upon such matters as he may bring before it.

ENDOWMENT AND IMPROVEMENTS.

The endowment of the college of Liberal Arts, started a few years ago by the munificent gift of sixty-five thousand dollars by the late Rev. Asahel M. Hough and his wife Anna G. Hough, has steadily grown until it has reached the sum of three hundred fifty thousand dollars. Several thousand dollars have been added to the endowment of the College of Law this year.

The new Medical Library building, the gift of Dr. Jarvis Barlow, has been completed at an expense of thirty-two thousand dollars, which adds greatly to the facilities of the College of Medicine. Substantial improvements have been made in all of the departments of the University. Many new

books have been purchased and placed on the shelves of our Libraries.

The two new science halls of the College of Liberal Arts are now well equipped with apparatus strictly up-to-date.

The gymnasium, the three tennis courts, the basketball court, the inclosed athletic field, with its quarter mile cinder path, and the bleachers with thirty-five hundred sittings, furnish ample facilities for physical training and out door sports.

ADVANTAGES OF LOCATION.

Los Angeles is the metropolis of Southern California which comprises the south half of the State. Its population of about 300,000 represents almost every State in the Union and many foreign lands.

The climate throughout the year is such that tourists from every quarter come to spend a part of the year, and many return to make this their permanent home.

It is the greatest railroad center on the Pacific Coast. Four transcontinental lines are now complete. A network of electric roads connects the city with the numerous beaches, mountain resorts and outlying towns. These are reached by delightful journeys through orange groves and orchards of semi-tropical fruits characteristic of the region.

Los Angeles is known as the Convention City of the West. Every year brings large bodies of people here for the discussion of every kind of public interest known to science, politics, religion and the humanities.

These great conventions afford the student an excellent opportunity to study the subjects of their discussion, while the resident population of the city is sufficiently large to afford important advantages for the study of sociology and kindred subjects.

The diverse view-points of the groups of students in the eight colleges make their association an important educational factor.

THE BOARD OF TRUSTEES

TERM EXPIRES IN 1907:

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Albert J. Wallace.	2147 Harvard Boulevard
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D. W. Edwards, D.D.S.,	9th and Beacon Sts.
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TERM EXPIRES IN 1909:

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Rev. Alva W. Adkinson, A. M.,	Secretary
George I. Cochran,	Treasurer and Financial Agent
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George F. Bovard, A.M., D.D.,
Stephen Townsend,
George I. Cochran,
Rev. Ezra A. Healy, A. M., D.D.,
C. M. Jacques,
Albert J. Wallace,
Rev. Alva W. Adkinson, A.M.,
Geo. L. Hazzard,

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(The College of Law)

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Thomas W. Robinson, A.B.,
Frank M. Porter, A.B., LL. B.,
Nathan Newby.

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Rev. W. W. Cookman, Los Angeles

COLLEGE OF MEDICINE.

Dr. A. F. Speicher, Los Angeles
Dr. G. W. Campbell, Los Angeles

COLLEGE OF LAW.

S. P. Mulford, Esq., Los Angeles
J. W. Curtis, Esq., San Bernardino

COLLEGE OF DENTISTRY.

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Dr. J. Tyler Parker, Pasadena

COLLEGE OF ORATORY.

Rev. Robt. McIntyre, Los Angeles

COLLEGE OF PHARMACY.

Dr. Bailey,

COLLEGE OF MUSIC.

Rev. B. C. Cory, Los Angeles

FACULTY

AND

OFFICERS OF ADMINISTRATION

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President of the University.
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Emeritus Professor of Theology.

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Professor of Applied Chemistry and Metallurgy.

James Harmon Hoose, A. M., Ph. D., . . 1121 W. 31st St.
Professor of History and Philosophy.

Margaret Graham Borthwick, A. B., . . . 679 W. 36th St.
Professor of the German Language and Literature.
Absent on leave in Germany, 1906-1907.

Albert B. Ulrey, A. M., 1435 W. 23rd St.
Professor of Biology.

Beulah Wright, Graduate of Northwestern
University, Comnock School . . . 2211 W. 21st St.
Professor of Oratory and Dramatic Art.

Paul Arnold, Ph. M., 1111 S. Hope St.
Professor of Mathematics

Roy Edwin Schulz, A. B., 3426 S. Flower St.
Professor of the Latin Language and Literature
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Hazard Professor of the English Bible.
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Hollywood
Professor of the English Language and Literature.
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Professor of Physics and Electrical Engineering.
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Professor of Economics and Sociology.
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Professor of Foreign Languages and Literatures.
- John B. Johnson, C. E.** Pasadena
Professor of Civil Engineering.
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Associate Professor of the English Language and Literature.
- Elsie Vanderpool,** Graduate of Northwest-
ern University, Comnock School, . . . 1039 W. 39th St.
Associate Professor of Expression.
Director of the Women's Gymnasium.
- Gertrude Comstock, Ph. B.,** 1076 W. 36th St.
Associate Professor of Interpretation.
Director of outdoor Sports for Women.
- Nelle Lancaster, B. S.,** 1236 W. 23rd St.
Assistant Professor in Biology.
- Ruth W. Brown, A. B.,** 2659 Romeo St.
Assistant Professor of Latin and German.
- Nancy K. Foster.** 643 W. 32nd St.
Lecturer in English Literature.

Arley G. Tottenham,	716 S. Flower St.
Instructor in Drawing.	
Arthur W. Nye, B.S.	W. 25th St.
Instructor in Electrical Engineering.	
Mima F. Patterson,	1467 Dana St.
Instructor in English.	
Florence E. Durkee, A. B.,	351 W. 35th St.
Instructor in Botany.	
Lucy S. Best,	1627 W. 20th St.
Dean of Women.	
Sarah K. Miller,	679 W. 36th St.
Librarian.	
Cora M. Dyar,	660 W. 37th St.
Secretary to the President.	
Mary T. Graham,	
Resident Secretary of the Y. W. C. A.	

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Walter Lindley, M. D., LL. D.,	California Hospital
Emeritus Professor of Gynecology and Lecturer on Medical Economics.	
Joseph Kurtz, M. D.,	316-18 Douglas Building
Professor of Clinical Surgery.	
George W. Lasher, M. D.,	Hollenbeck Hotel
Professor of Surgery.	
W. LeMoyne Wills, M. D.,	540 Wilcox Building
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J. H. Utley, M. D.,	Bradbury Building
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Professor of Clinical Medicine.
- William D. Babcock, A. M., M. D., Dean,** 917 Union Trust Bldg.
Professor of Diseases of Ear, Nose and Throat.
- H. Bert Ellis, A. B., M. D.,** . . . 245 Bradbury Building
Professor of Ophthalmology.
- Hon. Nathaniel P. Conrey, A. M.,** Dep't 5, L. A. Co. Court House
Professor of Medical Jurisprudence.
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Professor of Bacteriology.
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Professor of Descriptive Anatomy.
- L. M. Powers, M. D.,** Health Office, L. A. City Hall
Associate Professor of Hygiene and State Medicine.
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Adjunct Professor in Ophthalmology.
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Lecturer on Diseases of the Stomach and Bowels.
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Instructor in Diseases of Children
- E H. Wiley, M. D.,** 212 Bradbury Building
Instructor in Anatomy.
- Donald Frick, M. D.** Delta Building
Instructor in Medicine.
- W. R. Molony, M.D.,** Mason Building
Demonstrator in Anatomy.
- J. W. Rankin, M. D.,** 417 Union Trust Building
Instructor in Manual Therapy.

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 Dr. Frasse

Surgery.

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 Dr. Aldin Dr. McNab Dr. A. W. Moore

Women.

Dr. DeBarth Shorb Dr. Alexander Dr. McGarry
 Dr. Kate Wilde Dr. Rose Bullard

Children.

Dr. Kate Wilde Dr. Colliver

Mind and Nervous.

Professor Brainerd Dr. Rankin Dr. Ross Moore

Eye.

Professor Ellis Dr. Bullard Professor Kiefer Dr. Harris

Ear, Nose and Throat.

Professor Babcock Dr. Kelsey Dr. Hastings

Skin and Venereal.

Professor Williams Dr. Murrieta

Clinical Laboratory.

Dr. C. McQuiston Dr. E. Seymour

Drug Room.

G. A. Lewis, Ph. G.

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Instructor in Dispensing Pharmacy.
- Edward A. Henderson,**
Instructor in Chemistry.
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Lecturer on Food and Drug Adulterations.

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- Claire W. Murphy, M. D.,** Conservative Life Bldg.
Professor of Anatomy.
- William C. Smith, D. D. S.,** Pasadena
Professor of Dental Pathology, Materia Medica, Therapeutics.
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Professor of Physiology.
- H. Gale Atwater, D. D. S.,** 1920 E. Fourth St.
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- Geo. S. Beane, B. Sc., Ph. D.,** 405 N. Ave. 65
Professor of Physics, Chemistry and Metallurgy.

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- Joseph D. Moody, D. D. S.,** Laughlin Bldg.
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Acting Professor of Prosthetic Dentistry.
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(Children's Teeth.)
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Superintendent of the College.
- D. Cave,** Lankershim Building
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Lecturer on Dental Jurisprudence.

- E. L. Townsend, D. D. S.,** . . . Wright & Callender Bldg.
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- G. Maurice Crow, D. D. S.,** Wilcox Building
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- Thos. A. Lynch, D. D. S.,** Downey, California
Operative Technic.
- J. S. Montague, D. D. S.,** 2672 West Pico
Metallurgy.
- D. S. Gillespie, D. D. S.,** Frost Building
Infirmary.
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Infirmary.
- Nye W Goodman, D. D. S.,** O. T. Johnson Bldg.
Porcelain.
- John C. Hopkins, D. D. S.,** Byrne Building
Porcelain.
- James D. McCoy, D. D. S.,** Gross Building
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- W. H. Cheney, Ex-Judge Superior Court,**
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- Curtis D. Wilbur, Judge Superior Court,**
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- William M. Hiatt, Attorney Title Ins. & Tr. Co.**
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- W. P. James, Chief Deputy District Attorney.**
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- Sam. L. Baker,**
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- Grant R. Bennett, A. B., LL. B.,**
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- Frederick W. Houser, LL. B.,**
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- Beulah Wright, Dean of the College of Oratory,**
Debate and Public Speaking.

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- Hon. N. P. Conrey, Judge Superior Court,**
Medical Jurisprudence.
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- Earl Rogers,**
Advocacy.

E. W. Tuttle,
Admiralty.

Frank James,
Lien Law of California.

James R. Townsend,
Patents.

Seward A. Simons, A. B.,
Insurance Law.

John D. Pope,
Legal Ethics.

J. W. Swanwick, LL. B.,
Appeals.

E. W. Camp, A. B., LL. B.,
Federal Procedure.

M. W. Conkling,
Derivation of Titles.

E. W. Britt, Ex-Supreme Court Commissioner,
Water Rights.

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Walter Fisher Skeelee, A. B., Dean, . . . 215 Thorne St.
Professor of Pianoforte and Pipe Organ.

John Douglas Walker, 837 W. 35th St.
Voice Culture and Directing.

Charles E. Pemberton, Blanchard Bldg.
Violin, Harmony, Counterpoint and Musical Theory.

Carrie A. Trowbridge, 1045 W. 38th St.
Piano.

Lillian M. Arnett, 947 W. 35th St.
Piano.

M. Isabel Curl, 934 W. 35th St.
Voice Culture.

Herr Oskar B. Seiling, Blanchard Bldg.
Violin.

Madge Patton,	1210 Valencia St.
Dunning System for Beginners.	
Mrs. S. J. Brimhall,	417 W. Ave. 52
Piano.	
William H. Mead,	Blanchard Bldg.
Flute.	
C. S. Delano,	2610 W. 8th
Guitar and Mandolin.	

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Elsie Vanderpool.	1039 W. 39th St.
Professor of Expression.	
Director of Physical Education of Women.	
Gertrude Comstock, Ph. B., Secy.,	1076 W. 36th St.
Professor of Interpretation and Physical Training.	
Principal Children's Department.	
Albert B. Ulrey, A. M.,	1435 W. 23rd St.
Professor of Physiology and Hygiene.	
James Main Dixon, A.M., F. R. S. E.,	Hollywood
Professor of English Language and Literature.	
Harvey R. Holmes, Ph. B.,	4055 S. Grand Ave.
Director of Physical Education for Men.	
Stella Webster Morgan, A. B.,	934 W. 35th St.
Professor of English Literature.	
Tully C. Knoles, A. B.,	310 W. 48th St.
Professor of History.	

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Dean.
Rose Pitcher,
Professor of Drawing.

Arley G. Tottenham,

Professor of Drawing.

Jessamine Rockwell,

Assistant Professor of Art History.

Edna Blumve,

Assistant Professor of Clay Modeling.

Pearl Judson,

Secretary.

Benjamin C. Brown,

Examiner.

John W. Nicholl,

Examiner.

COMMERCIAL SCHOOL.

Katherine E. Short,

Principal.

THE COLLEGE OF LIBERAL ARTS

THE COLLEGE OF LIBERAL ARTS.

CONDITIONS OF ADMISSION.

I.—Admission to the Freshman Class.

Candidates for admission to the Freshman class must be at least sixteen years of age, and must present evidence of good moral character, together with credentials from the institution in which they were prepared, or from their last instructors.

Candidates must also give, either by examination or by certificate, satisfactory evidence of preparation in **fifteen units** of preparatory subjects. They may be selected from either of the following groups of subjects:

GROUP A.

English (1) †	2 units*
Algebra (2)	1
Plane Geometry (3)	1
United States History and Civil Govern- ment (4)	1
Latin (7) and (8)	4
Greek (9a)	
or German (10)	2
or French (11)	
Physics (6)	1
Elective subjects, chosen by the candidate from the general list of preparatory sub- jects described on pp. 27 ff	3
<hr/>	
15 units	

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

† The figures in parentheses give the number of the subjects in the general list of preparatory subjects described on pp. 27 ff.

GROUP B.

English (1) †	2 units*
Algebra (2)	1
Plane Geometry (3)	1
United States History and Civil Govern- ment (4)	1
Latin (7)	2
German (10)	
or French (11)	2
Latin (8)	
or German (10) (if not counted above)	
or French (11) (if not counted above)	2
or Spanish (12)	
or English (14)	
or Mathematics (15a or 15b) and a science	
Physics (6)	1
Elective subjects, chosen by the candidate from the general list of preparatory sub- jects described on pp. 27 ff	3
	<hr/> 15 units

GROUP C.

English (1) †	2 units*
Algebra (2)	1
Plane Geometry (3)	1
United States History and Civil Govern- ment (4)	1
German (10)	2
Latin (7)	
or French (11)	2
or Spanish (12)	
or English (14)	
Algebra (15a)	1
Physics (6)	1
Botany (16)	1
or Zoology (17)	
or Chemistry (19)	
Elective subjects, chosen by the candidate from the general list of preparatory sub- jects described on pp. 27 ff	3
	<hr/> 15 units

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

† The figures in parentheses give the number of the subjects in the general list of preparatory subjects described on pp. 27 ff.

GROUP D.

English (1) †	2 units*
Algebra (2)	1
Plane Geometry (3)	1
United States History and Civil Govern- ment (4)	1
German (10)	2
Latin (7)	
or French (11)	2
or Spanish (12)	
or English (14)	
Algebra (15a)	1
Physics (6)	1
Chemistry (19)	1
Drawing (Freehand and Mechanical) (20, 21)	2
Solid Geometry and Trigonometry (15b)	1
<hr/>	
15 units	

METHODS OF ADMISSION.**CONDITIONAL ADMISSION.**

Candidates may be conditionally admitted to the Freshman class, if they are not deficient in more than **twenty semester hours** (two units) of preparatory work. They must, however, remove all such conditions before they may obtain Junior standing.

ADMISSION TO COURSES IN THE COLLEGE OF LIBERAL ARTS OUTSIDE OF THE ENGINEERING COURSES.

1. ADMISSION BY CERTIFICATE.

Candidates who have completed a regular course in the Preparatory School of this University, or in an accredited high school, may be admitted to the College of Liberal Arts without examination, on presenting a certificate signed by the principal. Credit will be given only for entrance subjects in which the

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

The figures in parentheses give the number of the subjects in the general list of preparatory subjects described on pp. 27 ff.

candidate is specifically recommended. Recommendations will be accepted from any school accredited by this University, Leland Stanford Junior University, or the University of California. The Faculty reserves the right, however, to require an examination upon any or all of the studies set for entrance, whenever there is doubt that the preparation has been sufficient. The candidate should bring his certificate of recommendation when he presents himself for matriculation.

2. ADMISSION BY EXAMINATION.

The regular examinations for admission will begin Monday, September 16, 1907, when candidates will be examined in all the required admission subjects not covered by certificate from an accredited school.

ADMISSION TO ENGINEERING COURSES.

Students may enter the Engineering Courses by offering for entrance the subjects of Group D. Such students are advised, though not required to offer 15a, 15b, 20 and 21. Otherwise these courses must be completed during the first year. If 15a, 15b, 20 and 21 are not offered, three elective units must be offered in place of those subjects.

PREPARATORY SUBJECTS.

The following items will serve to indicate both the kind and the amount of work expected in the different preparatory subjects accepted for admission, as well as the units of credit allowed for the same:

1. **English.** A short essay on an assigned subject will be called for, with the purpose of testing accuracy in spelling, punctuation, division into paragraphs, and power of expression in clear and correct English. The candidate will also be required to give evidence of a thorough study of the subject-matter, form and structure of each of the following works: Scott's *Lady of the Lake*, Carlyle's *Essay on Burns*, selected Poems of Burns, Lowell's *Vision of Sir Launfal*, the *de Coverley Papers*, (Addison and Steele), Shakespeare's *Merchant of Venice*, George Eliot's *Silas Marner*, Goldsmith's *Deserted Village*, Scott's *Ivanhoe*, Coleridge's *Ancient*

Mariner, Milton's *L'Allegro* and *Il Penseroso*, Macaulay's *Essay on Warren Hastings*, Shakespeare's *Julius Caesar*, Tennyson's *Idylls of the King* (selections.) (2 units.)

2. Elementary Algebra. This should include the following subjects: The four fundamental operations with emphasis placed on the type-forms in multiplication and division, factoring, highest common factor and lowest common multiple, fractions and fractional equations, simultaneous equations of the first degree, the binomial theorem for a positive integral exponent, evolution, theory of exponents, radicals, quadratic equations, and the solution of problems involving the various classes of equations. Emphasis should be placed on factoring and on the solutions of equations. (1 unit.)

3. Plane Geometry. This includes the usual theorems and problems of elementary plane geometry. An important part of the work should be the solution of original exercises including problems in mensuration. (1 unit.)

4. United States History and Civil Government. Channing, and Fisk, or an equivalent. (1 unit.)

5. Grecian and Roman History. Myers, or an equivalent. (1 unit.)

6. Physics. The equivalent of one year's work, including both laboratory and text-book work. Accurate notes of the laboratory work should be kept. Gage's *Elements*, or Carhart and Chute's *High School Physics* will serve to indicate the amount of text-book study required. (1 unit.)

7. Elementary Latin. For the requirements of Elementary Latin an accurate pronunciation is necessary, a thorough knowledge of regular forms and principles of syntax, a vocabulary of about fifteen hundred words, and the ability to translate easy prose at sight, and to write simple sentences. These attainments can be secured from the careful study of an elementary text-book and four books of Caesar, together with daily oral or written composition and occasional practice in sight translation. The examination in composition in 1907-1908 will be based on the second book of Caesar's *Gallic War*. (2 units.)

9. Advanced Latin. For the requirements of Advanced Latin the ability to translate at sight simple portions of Cicero's orations and Vergil's Aeneid is necessary, familiarity with the principles of the Latin hexameter and the ability to translate a passage of connected English based on Cicero. These attainments can be secured from the careful study of six of Cicero's orations and six books of Vergil's Aeneid, together with very thorough drill in daily oral or written composition. It is expected that a certified composition book will be presented for entrance credit. The examination in composition in 1907-1908 will be based on the oration *Pro Archia*. (2 units; without the composition, 1 unit.)

9. Greek. (a) Grammar and Lessons; *Anabasis*, book I-III; prose composition. (2 units.)

(b) *Anabasis* book IV; *Iliad*, books, I-III; prose composition; sight reading; review of the Grammar. (1 unit.)

10. German. A knowledge of the inflections of articles, nouns, adjectives, pronouns, weak verbs and usual strong verbs; also of the use of the modal auxiliaries, the common prepositions, the simpler uses of the subjunctive, and the order of words; the reading and translation of stories and plays, such as Storm's *Immensee* and Benedix's *Der Prozess*; translation of easy English into German, translation at hearing, and pronunciation. (2 units.)

11. French. A knowledge of the essentials of grammar, including the inflections of nouns, adjectives, pronouns, regular and common irregular verbs; the use of personal pronouns and the elementary rules of syntax; ability to pronounce accurately and to read smoothly; translation of modern stories and plays, such as About's *Le Roi des Montagues* and Labiche and Martin's *Le Voyage de M. Perrichon*; translation at hearing and at sight; translation of easy English into French. (2 units.)

12. Spanish. Grammar, Garner, Monsanto or De Tornos; reading from Matzke's *Spanish Readings*, Knapp's *Spanish Readings*, Pepita Jimenez; translation of easy English into

Spanish, and simple conversation in Spanish. Special importance attached to a knowledge of Spanish verbs. (2 units.)

13. **Mediaeval and Modern History.** Myers, or an equivalent. (1 unit.)

14. **English Literature.** Gray's *Elegy*; Wordsworth's *Tintern Abbey*, *Ode on Intimations of Immortality*, *Ode to Duty*; Keats's *Eve of St. Agnes* and *Ode to a Nightingale*; Milton's *Comus*, *Lycidas*, Burke's *Speech on Conciliation*; Shakespeare's *Macbeth*; Webster's *Reply to Hayne* (with rapid reading of Hayne's speech); Shelley's *Cloud* and *Ode to a Skylark*; Browning's *Andrea del Sarto*, and *Rabbi Ben Ezra*,—together with a similar number of other classics, such as may be acceptable to the Department of English. (2 units.)

15. (a) **Advanced Algebra.** This should include the following subjects: Mathematical induction; the proof and the use of the remainder and the factor theorem; the binomial theorem for a positive integral exponent; evolution, including the extraction of any root of algebraic polynomials, and also of arithmetic numbers; theory of exponents; complex numbers; radicals, and irrational equations; theory of quadratic equations; simultaneous quadratics; inequalities; ratio, proportion and variation; arithmetic, geometric and harmonic series. Emphasis should be placed on the solution of equations by factoring, and on the demonstration of laws and principles. (1 unit.)

(b) **Solid Geometry and Trigonometry.** The fundamental propositions of solid geometry and especially those of spherical geometry; the development of the general formulae of elementary plane trigonometry; the theory of logarithms and the use of logarithmic tables; the numerical solution of plane triangles, and of simple problems in heights and distances. (1 unit.)

16. **Botany.** A study in the laboratory and field of types of plant groups. Drawings and notes made directly from the specimens must be submitted as evidence of the character of the work done. A full year's work. (1 unit.)

17. **Zoology.** One year's work on the structure, relation-

ship and habits of animals. Laboratory note-books with drawings will be required. (1 unit.)

18. **Physiology.** An equivalent of Martin's Human Body, —Shorter course. (1 unit.)

19. **Chemistry.** Laboratory and text-book work for one school year, such as outlined in Remsen's Introduction to the Study of Chemistry, or Newell's Experimental Chemistry. At least four hours per week throughout the year is required in actual laboratory practice in order to complete the amount of laboratory work desired. (1 unit.)

20. **Freehand Drawing.** The study of light and shade and perspective by drawing and shading with pencil from geometric and simple still life objects. ($\frac{1}{2}$ to 1 unit.)

21. **Mechanical Drawing.** The use of drawing instruments in line work, the construction of geometrical problems, and simple detail drawing. ($\frac{1}{2}$ to 1 unit.)

Note.—Candidates who offer subjects in Science will be required to present their note-books in the same.

ADMISSION TO ADVANCED STANDING.

Students from other institutions of recognized collegiate rank may be admitted to such standing and upon such terms as the Faculty may deem equitable, upon presentation of letters of honorable dismissal. Every such candidate is required to present a catalogue of the institution in which he has studied, with a full statement, duly certified, of the studies he has completed, including studies passed at entrance as well as those credited. The Faculty reserves the right to determine the amount of credit to be given a student upon his certificate, after a test of at least one semester.

Students offering for college credit subjects pursued in a preparatory school which are deemed the equivalent of certain subjects in the college curriculum, as, for example, trigonometry, must pass a satisfactory examination in the same before they may receive credit therefor toward the one hundred twenty hours required for a degree.

• ADMISSION AS SPECIAL STUDENTS.

Persons who are matured and who wish to devote their time to special work in one department, or in one subject, with its related branches, may be admitted as special students. They are not candidates for a degree, but may become so by satisfying the entrance requirements for a regular course. Special students are subject to the same regulations as regular undergraduates, and failure to maintain a good standing will work forfeiture of their privileges.

Special students, on leaving the College, will be granted letters of dismissal certifying the studies they have pursued, and their recorded grades.

STANDING AND GRADUATION.

Registration.

In the first day of each semester, which is Registration Day, each student must register at the Registrar's office, and must secure a **study card** for selection of studies for the semester. This card, properly filled out and approved by the major professor and the Registrar, must be filed in the office not later than one week from Registration Day; but late study cards will be accepted upon payment of a special fee of one dollar. A student desiring to enter any class must present his study card to the instructor for enrollment.

Students entering for the first time should present their credentials to the Registrar for credit and entry; otherwise they will be required to pass examinations in the subjects necessary for admission to the class desired. In the choice of studies, all work necessary to remove conditions must be provided for first; and **required** studies should take precedence of elective studies.

GRADUATION.

THE DEGREE OF BACHELOR OF ARTS.

The College of Liberal Arts offers as many courses from which the student may elect as there are departments in which a major is offered.

Each course the student may pursue is designed to give a liberal education and except in the Engineering courses, (see pp. 66-74), leads to the degree of Bachelor of Arts (A.B.)

The student must complete one hundred twenty semester hours of college work, and also the requirements in physical education. The one hundred twenty hours include the **required studies**, a **major** in one department, and a related **minor**.

A semester hour means one exercise a week throughout a semester. It is intended that each hour of credit shall represent, for the average student, one hour of recitation or lecture, and two hours of preparation or subsequent reading per week, or an equivalent amount of work in laboratory courses.

Fifteen hours per week of recitations or lectures, or their equivalent in laboratory work, constitute an average semester's work. Students may register for as few as **thirteen** or as many as **eighteen** hours by making application to the Registrar.

REQUIRED STUDIES.

In all the courses except in the Engineering Courses, in which the student is a candidate for the bachelor's degree he must complete work as follows:

English, Rhetoric I., one year, six hours.

Science, one year, eight or ten hours. (The course elected may be Chemistry, Zoology, Physics or Botany.)

Mathematics, one year, six hours.

Philosophy, one year, six hours.

Language, two years, fourteen hours. (The course elected may be in Latin, Greek, German, French or Spanish.)

The Freshman year should be devoted to the completion of thirty hours of these **required** subjects.

MAJOR SUBJECT.

Each undergraduate student must select the work of some one department as his **major subject**. The selection may well be deferred until the beginning of the second year. The re-

quirements for major work, a minimum of twenty-four, a maximum of thirty hours, are stated under the courses of instruction. The equivalent of ten hours work must also be taken in a related subject (the minor) approved by the major professor.

The major subject may be changed with the approval of the professors of the old and new subjects, provided the student is able to meet the requirements of the new major. In the Engineering Courses the prescribed studies are outlined for the four years (see pp. 66-74.)

ELECTIVE STUDIES.

All of the remaining work required for graduation is elective. The professor in charge of the major subject selected by any student, together with the President of the University, act as advisers to the student in the selection of such subjects as will bear some useful relation to the course he is pursuing.

CLASSIFICATION OF STUDENTS.

Students who have no entrance conditions, and who have completed twenty-four semester-hours of the freshman year, will be classed as sophomores.

Those who have completed fifty-four semester-hours will be classed as juniors.

Those who have completed eighty-eight semester-hours will be classed as seniors.

Students who have completed one hundred and twenty semester-hours, including all required work, and a major in one department with a related minor, will be entitled to receive the degree of Bachelor of Arts.

ABSENCE FROM EXERCISES.

1. Excuse must be rendered for all absences from required exercises.

2. A student who is absent during a semester from more than one-tenth of the whole number of recitations or laboratory periods held in any subject shall be required to pass a special examination in that subject.

3. A student who is absent from more than one-sixth of the whole number of recitations or laboratory periods held during a semester in any subject shall have his registration in that subject canceled. If, however, a student whose registration has been canceled can show sufficient cause for his absence, and if his previous standing be such as to indicate that he can make up his loss and maintain a suitable quality of work in the subject, he may have his registration restored by presenting his case to the Faculty.

In applying this rule absence from the first or last recitation in a study, or consecutive absences in which either the first or last recitation is included, will be counted each as two absences.

4. Students are required to attend a minimum of three-fourths of all chapel exercises.

EXAMINATIONS AND GRADES.

At the close of each semester the regular examinations are held in the study of the semester. After the examinations a report is sent to the parent or guardian of each student, giving his standing in his studies for the semester. The general character of the work of each student in each study is indicated by his assignment to one of the six grades,—grade A denoting the highest excellence, and grade F, failure to pass.

A student whose work in a subject is marked conditioned or incomplete is delinquent in that subject. Such delinquency must be made up, in such manner as the instructor may determine, before the close of the semester next after that in which the delinquency occurs. If the delinquency be not thus made up, the student will be required to take the subject again with a class before he may receive credit for the same. A grade F may be removed only by taking the subject in class again.

The co-operation of parents with the Faculty is earnestly solicited, in their efforts to maintain a high standard of scholarship and deportment, and to promote the welfare of all entrusted to their care.

THE DEGREE OF BACHELOR OF ARTS AND THE DEGREE OF DOCTOR OF MEDICINE.

A credit of thirty (30) to sixty (60) hours will be granted on the course leading to the degree of Bachelor of Arts (A.B.) in the College of Liberal Arts on completion of the Medical course of the University. The degree will be conferred at the close of the College year in which the medical degree is granted.

The number of hours credit will be determined by the character of the work done by the student.

The applicant must have completed a minimum of eighteen hours work in the College of Liberal Arts of this University.

He must meet the conditions as to required studies in the College of Liberal Arts.

He must matriculate at the College of Liberal Arts for two years.

The regulations for the current year shall prevail concerning fees.

THE DEGREE OF BACHELOR OF SCIENCE IN THE ENGINEERING COURSES.

For requirements, etc., see p. 66.

THE DEGREE OF MASTER OF ARTS.

The degree of Master of Arts (A.M.) is conferred upon graduates of the College of Liberal Arts of the University and upon others who have had an equivalent training elsewhere on completion of an approved course of graduate study equivalent to thirty semester hours.

Candidates who pursue this advanced study in residence at the University may receive the degree as early as one year after graduation. Those who do not pursue the study in residence may receive the degree not earlier than two years after graduation.

At least sixteen semester-hours of the work offered for the Master's degree must be chosen from one department, in which the candidate has previously completed the undergraduate major work, or an equivalent. This advanced work will be the major subject. Six semester hours must be taken in some department other than the major. This will be the minor subject. The remainder of the work may be chosen from any department approved by the Faculty.

The Master's degree may designate the special course pursued—e. g., Master of Arts in Science.

Resident candidates must register not later than the first Tuesday in October next preceding the date of the final examination. Non-resident candidates must register one year earlier.

A thesis embodying the results of investigation on an approved subject in the major department must be submitted and be approved by the major professor before the candidate may be recommended for a degree.

The subject for the thesis must be submitted to the Faculty for approval through the major professor not later than January 10, and the completed thesis not later than the last Saturday in May, of the year in which the degree is desired. The thesis must be typewritten on paper 8x10 inches in size, and a copy of the same deposited in the Library.

THE DEGREE OF MASTER OF ARTS AND THE DEGREE OF DOCTOR OF MEDICINE.

Upon students who complete the course in the College of Medicine of the University after receiving the Bachelor's degree from the College of Liberal Arts or other institutions approved by the College, the degree of Master of Arts will be conferred on the following conditions:

1. A candidate for the degree of Master of Arts who is at the same time pursuing the regular course in the College of Medicine must matriculate in the College of Liberal Arts at least two years before receiving the Master's degree. The degree of Master of Arts may then be granted at the same

time the candidate receives the degree of Doctor of Medicine.

2. The candidate's research work must be planned in conjunction with the Committee on Graduate Study in the College of Liberal Arts.

Reports of progress in the research work shall be made at such times as may seem advisable to the Committee. The results of such work must be embodied in a thesis approved by the Committee on Graduate Study.

3. The regulations of the College of Liberal Arts for the current year shall prevail concerning fees and thesis.

THE DEGREE OF CIVIL ENGINEER AND THE DEGREE OF ELECTRICAL ENGINEER.

For requirements, etc., see p. 66.

EXPENSES.

Graduate Study.

The charges in the Treasurer's bill are as follows:

Tuition, per semester, payable in advance	\$35.00
Registration fee (included in the above)	10.00
Diploma fee	10.00

Students who have received the Bachelor's degree from the University of Southern California will pay only registration and diploma fees.

Non-resident students will pay fifty dollars tuition for the course.

Undergraduate Study.

Tuition, per semester, payable in advance	\$35.00
Tuition for six to ten hours	25.00
Tuition for fewer than six hours	17.00
(Gymnasium fee, and instruction in physical education included in the above.)	
Gymnasium fee, and instruction in physical education taken without other studies	6.00
Registration fee, included in the above but not subject to rebate	5.00
Diploma fee	5.00

Tuition for auditors, per semester . . .	10.00
Laboratory fee, per semester:	
General Chemistry	\$ 7.00
Analytical Chemistry	7.00
Quantitative Chemistry	7.00
Assaying	30.00 to 50.00
Advanced Physics	4.00 to 10.00
General Zoology	4.00
General Botany	4.00
Advanced Physiology	3.00
Bacteriology	4.00

An account is kept of breakage and an additional charge made therefor.

An additional deposit of \$5.00 to cover breakage, is required in Chemistry. This deposit, less cost of breakage, is refunded at the end of the semester.

Students who are recommended by a quarterly conference as acceptable candidates for the ministry; young women who are recommended for the work of deaconess by a quarterly conference and by the Conference Board of Deaconesses; and the sons and daughters of ministers in the regular work of any evangelical denomination, may have their tuition fee reduced to one-half the regular rate.

A discount of ten per cent. will be allowed on the second semester, when the tuition fees for the whole year are paid in advance; also a discount of ten per cent. when two or more students enter from the same family.

No rebate will be allowed for absence of less than half a semester.

Board and furnished rooms can be secured in private families at from three dollars to five dollars per week. Furnished rooms accommodating two students cost from four to eight dollars per month.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

COURSES OF INSTRUCTION

BIOLOGY.

Professor Albert B. Ulrey.

Assistant Professor Nelle Lancaster (Zoology)

Instructor Florence E. Durkee (Botany)

Laboratory Assistants, Ralph Clark, Chester H. Bowers.

The student of biology endeavors to know animals and plants as complete, living organisms; the structure and functions of the parts; the development and life-habits; their action on environment and their modification by environment; their likenesses and differences.

This study of the laws of life by actual contact with living things cultivates in the student the power of observation and analysis. It enlarges his mental horizon and gives him not only a clearer conception of plants and animals, but also a knowledge of some of the fundamental principles of society and social institution.

Zoology.

1. **General Zoology.** Laboratory study of representative types of invertebrate and vertebrate animals from the simplest to the most complex. A series of lectures co-ordinating the laboratory work and dealing with the general problems of biology. The course includes a study of animal structure, functions, relationships and adaptation to environment. The student receives instruction in the use of the microscope, dissecting apparatus, and is directed in the study of animals in their native environment. Eight hours laboratory work and lectures per week, throughout the year. **Four hours, both semesters.**

2. **Histology.** The microscopic anatomy of animal tissues. Methods of preparation of tissue with practice in fixing, sectioning, staining and mounting for microscopical study. The structure of tissues is studied in relation to their functional activities. Laboratory work, lectures and recitations eight

hours per week, one semester. Prerequisite Course 1. **Four hours either semester.**

3. **Embryology.** The general course of development of one of the higher vertebrates. Special study of the early stages of development of the organs. Embryological methods and practice in serial sectioning. The lectures deal with the general problems of embryology. Eight hours per week, one semester. Prerequisites Zoology 1 and 2. **Four hours, either semester.**

4. **Physiology.** Lectures, laboratory work and recitations on the activities of living organisms in general. Special study of the physiology of the human body. Eight hours per week, one semester. Prerequisites Zoology 1 or Botany 1. **Four hours, either semester.**

5. **Anatomy of Vertebrates.** Dissection of some of the higher vertebrates; quizzes, recitations and lectures. The course is primarily for preparatory medical students. Eight hours per week are required in the laboratory, one semester. Prerequisite Zoology 1. **Four hours, either semester.**

6. **Systematic Zoology.** The course deals with certain groups of vertebrates with special reference to morphology and relationships. Laboratory study, field work and lectures. Six hours per week, one semester. Prerequisite Zoology 1. **Three hours, either semester.**

7. **Special Zoology.** Investigation of some topic of limited scope. This course is planned to meet the needs of each student prepared to pursue it. Six hours per week, throughout the year.

Prerequisites Zoology 1, 2, 3, 4, and 5, or their equivalent. **Three hours, both semesters.**

Botany.

1. **General Botany.** The course comprises a study of typical plants representing the vegetable kingdom. The first semester is devoted to cryptogams, the second semester to spermatophytes. Laboratory study, field work and lectures.

Eight hours per week, throughout the year. **Four hours, both semesters.**

2. **Vegetable Histology.** The minute structure of the tissues of plants. Microscopical methods of preparing permanent mounts; imbedding, sectioning and staining. Laboratory work and lectures. Eight hours per week, one semester. Prerequisite Botany 1. **Four hours, either semester.**

3. **Vegetable Physiology.** Experimental work on the physiology of plants, lectures and supplementary reading. Six hours per week, one semester. Prerequisite Botany 1. **Three hours, either semester.**

4. **Ecology and Taxonomy.** A study of flowering plants (spermatophytes) in the local flora. The course deals with the relationship of plants to their environment and affinities indicated by their structure. Six hours per week, one semester. Prerequisite Botany 1. **Three hours, either semester.**

General Biology.

1. **Bacteriology.** The course consists of a study in the laboratory and by means of lectures of the nature of the bacterial organism; its relation to disease, methods of cultivating and isolating non-pathogenic and pathogenic forms; inoculation experiments, staining of sections, examination of water, etc. Eight hours per week, one semester. Prerequisites Zoology 1, or Botany 1. **Three hours, one semester.**

2. **Bionomics.** A course of lectures dealing with the general principles of biology. The problems of inheritance, development and sex are considered from the cytological standpoint throughout the first semester. Variation, heredity, selection, regeneration and kindred topics are studied during the second semester. Two hours per week, throughout the year. Prerequisites Zoology 1 or Botany 1. **Two hours, both semesters.**

3. **Hygiene and Sanitary Science.** A course of lectures and laboratory demonstrations on (a) the improvement and preservation of health, and (b) the applications of science in the home. Open to all students. **Two hours, either semester.**

4. **Nature Study.** A series of lectures and lessons on the study of living objects. The course affords opportunity for the student to learn something of the more common objects of nature and how to study them profitably. Open to all students. **Two hours, either semester.**

5. **Experimental Biology.** The course consists of a series of experiments on organisms to determine their response to conditions varied from those normal to the plant or animal. (a) Variation; (b) Hybridization; (c) Regeneration. The work must be continued throughout one or two years. It may be made the basis of a graduation thesis. Prerequisite, six semesters of Zoology and Botany. **Three hours, both semesters.**

6. **Biological Seminary.** Occasional meetings of the students and instructors of the department to consider reports of special investigation on certain subjects and the recent literature of biology.

Courses 1 in Zoology, Botany and General Biology will be offered each year. Other courses will be given as the time of the instructors will permit and the needs of the students present require them.

Medical preparatory students should elect Zoology 1-5, Botany 1, General Biology 1 and 2.

Major Work: (a) Zoology, Courses 1-4 and 5, or 6 or 7; General Biology 2.

(b) Botany, Courses 1-4; General Biology 1 and 2.

CHEMISTRY.

Professor Laird Joseph Stabler.

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Laboratory Assistants Clarence E. Weber, Carl W. Hunt.

Courses 1, 2, 3, and 4 are prerequisites to all other courses in Chemistry.

In all laboratory courses except Course 11, a laboratory deposit of twelve dollars per semester for each course is required. Of these charges five dollars per semester, less break-

age, is returnable at the end of the course. In Course 11 a fee of twenty dollars is charged, and in addition a deposit of ten to thirty dollars is required to cover cost of materials consumed.

1. **General Inorganic Chemistry—Non-Metals.** Lectures and recitations, with illustrative experiments and study of a manual. Jones' Principles of Inorganic Chemistry. Usual prerequisite, Matriculation Chemistry. To be taken in connection with Course 3. **Three hours, first semester.**

2. **General Inorganic Chemistry—Metals.** A continuation of Course 1, together with an introduction to the study of Qualitative Analysis. To be taken in connection with Course 4. **Three hours, second semester.**

3. **General Inorganic Chemistry—Laboratory.** A series of experiments illustrating the general laws of chemical action, and designed to supplement Course 1 and be taken in connection with it. Laboratory Guide, Alexander Smith's Outline of General Chemistry. Six hours per week in the laboratory. **Two hours, first semester.**

4. **Qualitative Analysis.** A laboratory course in elementary qualitative analysis, with occasional lectures and recitations. Prescott's Qualitative Analysis. Six hours per week in the laboratory. **Two hours, second semester.**

5. **Quantitative Analysis.** Laboratory practice in gravimetric and volumetric determinations, with occasional lectures and recitations. Cheever-Smith's Select Methods. Nine hours per week in the laboratory. **Three hours, both semesters.**

6. **Advanced Qualitative Analysis.** A laboratory course involving difficult qualitative separations, and the separation and detection of some of the rare elements. Weekly lectures and discussions. Prescott and Johnson's Qualitative Chemical Analysis is recommended for reference. **Three to five hours, either semester.**

7. **Organic Chemistry.** Lectures and recitations on the chemistry of the carbon compounds. Remsen's Organic Chemistry. **Two hours, both semesters.**

7 a. Organic Preparations. A laboratory course in the preparation of typical carbon compounds. Open to students who have completed courses 1, 2, 3, 4, 5, and 7. **Two hours, both semesters.**

8. Mineral Analysis. Gravimetric and volumetric analysis of representative minerals, ores and alloys. Prerequisite, Course 5. **Four or five hours, either semester.**

9. Quantitative Analysis of Agricultural Products. Systematic analysis of fertilizers, dairy products, etc. Prerequisite, Course 5. **Four or five hours, either semester.**

10. Medical Chemistry. A laboratory course, including urine analysis, toxicology and food analysis. Designed especially for students looking forward to medicine or pharmacy as a career. Open to students who have completed or are taking courses 5 and 7. **Three hours, either semester.**

11. Assaying. This course comprises silver and gold extraction by scorification and crucible methods; fire assay of copper, lead and tin, extraction of gold from ores by the amalgamation, the chlorination, the cyanide and the electrolytic processes. **Two hours, either semester.**

Major Work: Sixteen semester hours in addition to courses 1-4.

ECONOMICS AND SOCIOLOGY.

Professor Gilbert W. Deniston.

The purpose of this department is to afford means for thorough and systematic study in Economics and Social Science. The courses are arranged to meet the wants of students in the various stages of their progress. Capable students are encouraged to undertake original investigations and assistance is given them through the personal guidance of the instructor. The requirements for a major are twenty-four semester hours.

Economics.

1. The Elements of Economics. A general introduction to economic study, based upon a text book and supplemented by

lectures and assigned readings. The main topics studied are; the nature of economic wants; the nature of value; the factors of production; the forces determining the share of product distributed as rent, wages, profit, and interest. **Three hours, first semester.**

2. **Public Finance.** A general course dealing with the principles of public revenue, public expenditure and financial administration. **Three hours, second semester.**

3. **Money and Banking.** The origin of money, its history and functions with a comparative study of leading banking systems. Prerequisite Economics 1. **Three hours, first semester.**

4. **Economic Geography.** A survey of the history and present status of industry and commerce in the principal countries of the world, the natural advantages each possesses in the world market and the policies they have pursued in developing them. Special attention is given to American resources and commerce. Prerequisite, Economics 1. **Three hours, second semester.**

5. **Transportation and Communication.** This course deals with the development and the economic functions of modern systems of communication. Special attention is given to American waterways and railways. **Three hours, first semester.** (Omitted in 1907-8.)

6. **Labor Problems.** The important labor problems of the day, strikes, trade-unions, arbitration, immigration, child labor, etc. **Three hours, second semester.** (Omitted in 1908.)

7. **The History of Economic Thought.** The development of economic theory from classical antiquity to the present time, with a discussion of existing schools of economic thought. Open only to advanced students. **Two hours, throughout the year.**

8. **Distribution of Wealth.** A comparative study of theories advanced by the leading economists and the relation of the fundamental institutions of the social order to the distribution of wealth. Open only to advanced students. **Two hours, throughout the year.**

Sociology.

1. **Social Problems.** A study of the laws of population, the growth of cities, tenements, social settlements, the liquor problem, and other questions of present interest. **Two hours, first semester.** Professor Deniston.

2. **Charities and Corrections.** A study of social pathology. During the semester the class visits the most important charitable and reformatory institutions in Los Angeles and vicinity to study the methods of dealing with dependents and delinquents. **Two hours, second semester.** Professor Deniston.

3. **Principles of Sociology.** The origin, growth, structure, and activities of society. Social institutions such as the family, the state, religion, property, and contract will be studied with a view to finding out their relation to social progress. **Three hours, first semester.** Professor Deniston.

4. **Social Theories.** A study of the writings of the four main groups of social reformers and the tendencies of present day thought. **Three hours, second semester.** Professor Deniston.

5. **Problems of the New Orient.** a. The history of Japan from legendary times. Japanese ideals and social conditions. The aborigines of Japan in Yezo and Sakhalin. The new industrialism and imperialism. Text book: Chamberlain's "Things Japanese."

b. The Chinese race, its origins, history and ideals. Manchu influences. The meeting of Orient and Occident. Possibilities latent in the Chinese people. Text book: Arthur Smith "Chinese Characteristics."

c. Korea as influencing and influenced by China and Japan. **Two hours, throughout the year.** (Omitted in 1907-8.) Professor Dixon.

ENGLISH.

Professor James Main Dixon.

Associate Professor Stella W. Morgan.

Nancy K. Foster, Lecturer in English Literature.

A.

Rhetoric.

1. **Wendell's English Composition, Lewis's Specimens of**

the Forms of Discourse. Special attention is given to themes in Exposition; and, later in the year, to style. This course is required of Freshmen. **Three hours, both semesters.**

Miss Morgan.

2. **Literary Laws of Journalism**, with practice in writing editorials. Prerequisite, Rhetoric 1. **Two hours, both semesters.**

Prof. Dixon.

3. **The Preparation of Orations and Briefs** for debate. Alden's *The Art of Debate*. **Two hours, first semester.**

Prof. Dixon.

B.

Philology.

1. **Chaucer and late middle English.** **Two hours, second semester.**

Miss Morgan.

2. **Sources of the English Language**, with reading in *Beowulf* and *Caedmon*. **Three hours, first semester. Two hours, second semester.**

Prof. Dixon.

C.

English Literature.

1. **General Survey of English Literature.** Newcomer's *English Literature*, with reports on outside reading, and semester papers. Prerequisite for elective courses. **Two hours, both semesters.**

Prof. Dixon.

2. **General Survey of American Literature.** Bronson's *Short History of American Literature* with assigned readings and reports. Special attention given to the writings of Lowell, Emerson, Hawthorne, Irving and Poe. **Two hours, first semester.**

Miss Morgan.

3. **Essayists of the Eighteenth and Nineteenth Centuries.** Lectures, class-room study, assigned readings and reports. **Two hours, second semester.**

Prof. Dixon.

4. **The Short-Story.** Jessup and Conby's *Book of the Short Story*, Cody's *World's Greatest Short Stories*. Lectures and class discussion. Each member of the class writes one original story. **Two hours, first semester.**

Miss Morgan.

5. **The Technique of the English Novel.** Whitcomb's *Study*

of the Novel, with analysis of one of George Eliot's or Thackeray's works, and comparative study of other novels. Class discussions, with required reports based on critical reading. **Two hours, second semester.** Miss Morgan.

6. **Critical Study of Milton's Epic and Dramatic Poems.** **Two hours, first semester.** Prof. Dixon.

7. **Victorian Poets.** Emphasis on Wordsworth and Tennyson, first semester; and on Browning and Arnold, second semester. **Three hours, both semesters.**

Prof. Dixon, Miss Foster.

8. **Pre-Shakespearian Drama.** Manly's specimens of Pre-Shakespearian Drama, Vols. 1 and 2. Lectures on the History of the Drama, with critical reading of plays. **Two hours, first semester.** Miss Morgan.

9. **Comparative Study of the Drama.** Specimens of the Greek, Roman, English, French and German Drama, in English. Lectures, with critical reading. **Two hours, second semester.** Miss Morgan.

10. **Shakespeare.** Critical study of six plays: As You Like It, The Tempest, Romeo and Juliet, I Henry IV, Macbeth and Hamlet. **Three hours, second semester.** Miss Morgan.

11. **Seminar in Versification.** **Two hours, second semester.** Prof. Dixon.

12. **Seminar.** Methods of teaching English in Secondary Schools, Carpenter, Baker and Scott's Teaching of English, with supplementary reading in Chubb's Teaching of English. Discussion of special methods in English Composition and Rhetoric, and the English classics required for admission to the University. This course is for advanced students who expect to teach English. **Two hours, second semester.**

Miss Morgan.

13. **Browning.** A. Comparison of Browning's dramatic work with Shakespeare's. **Two hours, first semester.** B. Study of Browning's lyrical poems and monologues. **Two hours, second semester.** Miss Foster.

14. **Thinkers and Movements in European Literature from**

the Reformation to the French Revolution. **Two hours, both semesters.**

Prof. Dixon.

15. **The Schools and Vocabulary of Literary Criticism. Two hours, second semester.**

Prof. Dixon.

Major Work: **Thirty hours, including Rhetoric 1.**

Graduate Instruction.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH BIBLE.

Professor F. G. H. Stevens.

1. **The Pentateuch and Historical Books of the Old Testament.** Ethnic Cosmogonies; Semitic Tradition; Hebrew Archeology; Comparative Ethics, Politics and Religion.

A study of race beginnings and the history of Israel up to the establishment of the kingdom. **Two hours, first semester.**

2. **The Prophetic and Wisdom Books of the Old Testament.** Literary form; Connection of Israel's history with that of contemporary nations; Messianic prophecy and other relevant topics.

Israel's history from the time of Saul to the Maccabees, with special reference to the prophets and their messages. **Two hours, second semester.**

3. **The Gospel History.** The social, political and religious life of the opening of the Christian era; the supernatural in the person and ministry of Christ; Christian Ethics. **Two hours, first semester.**

4. **The Apostolic History and Literature.** Questions that agitate the Apostolic Church in conflict with Judaism, the Roman Government, and current systems of Philosophy.

The Acts of the Apostles is made the basis for this course, the epistles being studied at the time of their writing in the Apostolic history. **Two hours, second semester.**

5. **Christian Evidences.** A critical study of the foundations of Christianity with special reference to the counter-

claims of history, science and philosophy. Two hours, both semesters.

6. **Personal Work.** A course for Christian Workers, using the Bible as a text, designed to render workers efficient in their knowledge of unbelievers and how to win them. Two hours, first semester.

7. **Teacher Training.** Covers the field of Bible Geography and History with lectures on teaching methods. Designed for those who desire to do high grade work in the Sunday School.

FRENCH.

Professor Edgar M. von Fingerlin.

1. **Fraser and Squair's or Francois French Grammer.** The essentials of grammar; exercises in pronunciation, reading, translation and composition. Dumas' *La Tulipe Noire* and Labiche's *Le Voyage de Monsieur Perrichon* or equivalents will be read in the second semester. Four hours, both semesters.

Course 1 is intended for students in the College who wish to begin the study of French. It covers the ground of preparatory subject 11.

2. (a) **Modern French Reading.** Daudet, *Lettres de mon Moulin*, or *Tartarin de Tarascon*; Balzac, *Eugenie Grandet*; Super, *Readings from French History*; Victor Hugo, *Hernani*; or equivalents.

(b) **Grammar and Composition.** Frazer and Squair's *French Grammar*, or *Francois Advanced Composition*.

(c) **Private Reading** of selected works, with reports.

Open to students who have completed Course 1, or its equivalent, or who have credit for entrance requirement 11. Three hours, both semesters.

3. **Classical Literature of the Seventeenth Century.** Corneille, *Le Cid*, *Horace*; Racine, *Esther*; Moliere *L'Avare*, *Les Precieuses Ridicules*, or equivalents, collateral readings, dictations and short lectures on the classical literature. Open to

students who have completed Course 2. **Two hours, both semesters.**

4. **Victor Hugo.** Lectures in French on the life and works of Victor Hugo. Study of French rhyme and rhythm in the Classical and Romantic Schools. Reading of selections from prose and poetical works of Victor Hugo. Open to students who have completed Course 3 or its equivalent. **Two hours, both semesters.**

5. **Historical French Grammar.** A survey of the development of French Syntax. **Two hours, both semesters.**

GEOLOGY.

Professor

1. **General Geology.** Study of a text, with observations on rocks and fossils from museum specimens and field excursions. **Two hours, both semesters.**

2. **Mineralogy.** Laboratory work, with blow-pipe analysis and chemical tests for minerals. Lectures and readings. **Two hours, both semesters.**

GERMAN.

Professor Margaret Graham Borthwick.

1. **Elementary German.** Pronunciation, reading and grammar, with practice in speaking and writing German.

This course includes the essentials of German grammar, with various practical exercises in dictation, composition, translation at hearing, and oral and written reproduction.

During the second semester some interesting short stories and characteristic poems are studied. **Five hours, both semesters.**

Course 1 is intended for students who enter without German. It covers the ground of preparatory subject 10.

2. **Modern German.** Modern narrative and dramatic prose, selected poems, and one drama of Schiller or Lessing. Grammar continued, with written and oral exercises. Letter writing and original compositions once every two weeks. **Three hours, both semesters.**

For students who have had course 1, or two years of High School German.

3. Scientific and Journalistic German. Rapid reading of scientific prose, also leading articles in German newspapers and magazines. Oral exercises. Written exercise once a week. **Two hours, both semesters.**

For students specializing in science. Open to those who have had course 2, or its equivalent.

4. Classical Writers. Dramas of Lessing, Goethe, and Schiller. Lyrics and Ballads. Lectures and conversation on the life and works of each author studied. One written exercise each week. **Three hours, both semesters.**

Open to students who have had course 2, or its equivalent.

5. Advanced Grammar and Elementary Phonetics. Review of grammar, with special emphasis on points necessary for teachers. Introduction to Vietor's system of phonetics, with exercises in reading phonetic texts. Practice in pronunciation and in reading aloud. Recitation of poems, and reading of dramas with assigned parts.

Written exercises in grammar and advanced composition every two weeks. **One hour, both semesters.**

Required of all students majoring in German. Open to those taking course 3, 4, or 6.

6. Nineteenth Century Literature. Representative dramas and novels from Grillparzer, Hauptmann, Freytag and Scheffel. Open to students who have had course 4, or its equivalent.

7. Goethe's Faust. Interpretation and discussion of both parts, with short historical introduction and collateral reading of Marlowe's Faust and of the Puppenspiel. **Three hours, second semester.**

GREEK.

Professor Festus E. Owen.

a. Beginning Greek. White's First Greek Book thoroughly mastered. Book I of Xenophon's Anabasis translated. Prac-

tice in sight reading from Book II. Pearson's Greek Prose Composition used in connection with the Anabasis. **Five hours throughout the year.**

b. **First Semester.** Books II-IV of Xenophon's Anabasis translated. Thorough grammar drill. Daily practice in reading at sight. Pearson's Green Prose Composition used daily in connection with the text. **Five hours through the semester.**

Second Semester. Books I-IV of Homer's Iliad read and translated. Books V-VI read at sight. Special attention given to Homeric forms, scansion, and mythology. Prose composition and Grammar review. **Five hours through the semester.**

(Students who offer but two years of Greek for entrance are required to take course. b, Second Semester, as a prerequisite to Course 1.)

1. **Six books of the Odyssey.** A careful study of the history of the Epic period of Greek Literature is made. Collateral reading assigned from Murray's, Jebb's, Mahaffey's, and Symond's histories. Special attention is given to the religious, social and political customs of the Homeric period. Daily practice in sight reading. A comparative study is made of Bryant's, Pope's and Palmer's translations in connection with Matthew Arnold's essay On the Translation of Homer. **Four hours, first semester.**

2. **Plato.** Apology, Crito, and Phaedo. Lectures on Greek Philosophy and Plato's Ethics in relation to Modern Thought. Murray's Prose Composition. **Four hours, second semester.**

3. **Plato.** Euthyphro, Gorgias and Protagoras. Aristophanes' Clouds.

A thorough study is made through lectures and assigned readings of the history of Greek Philosophy up to Plato, and of Plato's philosophy and ethics.

Time is taken for free discussion by the students of the important questions arising in the study of these dialogues. **Three hours, throughout the year.**

4. **Greek Tragedy.** (a) **Aeschylus**—Agamemnon.
 (b) **Sophocles**—Oedipus at Colonus.
 (c) **Euripides**—Iphigenia Among the Tauri.

A careful study of the development of the Greek Drama will be made through lectures and assigned readings, together with a consideration of the place of the Drama in Greek Literature as a whole. Three hours, throughout the year.

5. (a) **Greek Oratory.** Lysias—Selected Orations.
Demosthenes—De Corona.

(b) **Herodotus—Selections.** Three hours throughout the year.

6. **History of Greek Literature From Homer To Theocritus.** This course consists of lectures, and recitations based on translations together with papers on assigned topics. Jebb's "Primer of Greek Literature," and "Murray's Ancient Greek Literature," will be used as general guides. The aim is to secure familiarity with the great masterpieces of Greek Literature, as well as to gain a comprehensive grasp of the important facts of its history. This course is of special value to those who expect to specialize in, or to teach English Literature. Open to all students. Two hours, throughout the year.

Major Work: Courses 1-6.

HISTORY.

Professor James Harmon Hoose.

Professor Tully Cleon Knoles.

Point of View of the Courses in History.

History is an account of ideas and institutions in movement, rather than an account of personalities and events. Ideas are thoughtful experience embodied in definitions or in documents; they change in form and content as experience varies under different conditions. Personalities are the agents who exploit ideas. Events are reactions among ideas and personalities. Institutions are ideas formulated in practice to serve the purpose of human living. Civilization is the sum total of ideas and institutions which exist at any given period of time upon any given portions of the earth—i. e., civilization is the evolution of ideas and institutions.

1. **Mediaeval Europe.** From A.D., 375 to 1789. Text Books: Emerton's "Introduction to the Middle Ages;" Emerton's "Mediaeval Europe." Lectures. Collateral Reading. Pre-requisite for Courses 2, 3, 4, 5, and 6. **Three hours, both Semesters.** Prof. Knoles.

2. **Modern Continental Europe.** Selected periods, including the French Revolution, and the Organization of the German Empire. Text Books: Lowell's "Eve of the French Revolution;" Andrew's "Historical Development of Modern Europe." Lectures. Large use of Library. **Three hours, both semesters.** Prof. Knoles.

3. **English Constitutional History.** Text Books: Gardiner's "Student's History of England;" "Constitutional Essays" by Wakeman and Hassal; Boutmy's "English Constitution." Library References. **Three hours, both semesters.** Prof. Knoles.

4. **Constitutional and Institutional History of United States.** Text Books: Bryce's "American Commonwealth;" Lowell's "Government and Parties in Continental Europe." Topical Investigations and Reports. Lectures. **Three hours, both semesters.** Prof. Hoose.

5. **International Law.** Text Book: Hall's International Law. **Two hours, both semesters.** Prof. Deniston.

6. **Government.** A study in the evolution of Government. Lectures, Readings, Topical Investigations. For Major Students in History. **Two hours, second semester.** Prof. Knoles.

Major Work: Courses 1 to 6.

ITALIAN.

Prof. Edgar M. von Fingerlin.

1. **Grandgent's or Young's Italian Grammar.** La Parola Italiana by Comba. Bowen's First Italian Readings, Goldoni's Il Vero Amico, Grandgent's Italian Composition. **Three hours, both semesters.**

2. **Manzoni's Il Promessi Sposi.** Silvio Pellico's Le Mie Prigioni and other classics. Composition. **Two hours, both semesters.**

3. **Dante, Tasso, Petrarca.** Advanced Composition. Lectures on Italian Literature. **Two hours, both semesters.**

LATIN.

Professor Roy Edwin Schulz.

1. (a) **Cicero. De Senectute.** Careful interpretation of the text with practice in reading aloud with proper phrasing and emphasis without translation and in translation at hearing.

(b) **Horace.** Selections from the Satires are read and the hexameter carefully reviewed as an introduction to Course 2.

2. **Horace.** An attempt will be made to gain an intimate knowledge of Horace through the reading of selections from the Epodes, Odes, Carmen Saeculare, and Epistles, including the Ars Poetica, and through lectures on the Augustan Age and Horace's contemporaries. Metrical reading, style and subject matter are given special attention. **Three hours, second semester.**

3. **Latin Prose Composition.** A complete review of syntax followed by composition based on Cicero's De Senectute and De Amicitia. Word-formation and synonyms studied. Sentence structure and style. The course is required of all registered for Courses 1 and 2. **Two hours, both semesters.**

4. **Latin Comedy.** During the semester at least one play of Terence and two of Plautus will be read. Special attention is given to early forms, meter, etc. Lectures on the development of Roman Comedy, and on Roman Life. **Three hours, first semester.**

5. **Livy.** Selections from the extant books. Lectures on the history and literature of the period of foreign conquest. Reference reading in Mommsen, Niebuhr, etc. **Three hours, second semester.**

6. **Cicero.** Letters. Lectures on the history of the Republic from B. C. 133 with special reference to contemporary events. **Two hours, first semester.**

7. **Tacitus.** *Agricola* and *Germania*, or selections from the *Annals*. Lectures on the history and literature of the early empire. Two hours, second semester.

8. **Advanced Latin Prose Composition.** Cicero's *Second Philippic* is read and the composition based upon it. Writing of essays and letters in Latin. Translation of passages from English writers. The style of Cicero, Livy and Tacitus studied and compared. One hour, both semesters.

9. **History of Latin Literature.** Lectures on Latin Literature from Livius Andronicus to Boetius, with the interpretation of selections from all prominent authors. The course does not require a knowledge of Latin, and is open to students of all departments. Major students in the department will be required to do outside reading from text.

10. **Roman Philosophy:**

(a) **Lucretius.** *De Rerum Natura*. Selections.

(b) **Cicero.** Selections from his philosophical works.

Lectures on the development of Greek and Roman Philosophy. Two hours, first semester.

11. **Latin Elegiac Poetry.** Catullus, Ovid, Propertius and Tibullus. Selections. Studied largely with reference to thought and artistic form. Two hours, second semester.

12. **Teacher's Course.** Lectures on the Pedagogical Value of Latin, the work of the four years in the secondary school, the place of Composition, Prosody, History, etc., in the study of Latin. Visiting and reports from secondary schools in the vicinity of Los Angeles. Practice in teaching in the preparatory school of the University. Prerequisite, Philosophy 1.

Open to Juniors and Seniors. Two hours, first semester.

13. **Seminar.** During 1906-1907 Vergil's entire works were read from Kennedy's text, with particular reference to sources. Research work was required of each member of the seminar. Two hours, both semesters.

Major Work: Thirty semester hours, including 3, 8 and 9.

LIBRARY SCIENCE.**Miss Miller.**

1. **Elementary Library Science.** The course consists of lectures and recitations covering library classification and cataloging, periodicals, government publications, bibliography and reference work, together with a survey of library history; it is especially designed to help the general student and reader in the most efficient use of any circulating library. **One hour, either semester.**

Miss Miller.**MATHEMATICS.****Professor Paul Arnold.**

1. **Algebra.** Lecture and Text-book course. Mathematical induction, equivalent equations, surds and complex numbers, theory of quadratic equations, simultaneous quadratic and higher equations, ratio, proportion, variation, the progressions and other simple series, inequalities, permutations and combinations, the binomial theorem for any exponent, limits and infinite series, determinants, theory of equations.

In the lectures a careful study of the theory and development of Algebra from the very beginning is taken up and proofs are given of all the fundamental laws. **Two hours, both semesters.**

2. **Solid and Spherical Geometry.**—The fundamental propositions of the Euclidean geometry of space. **Three hours, first semester.**

3. **Trigonometry.**—Plane trigonometry and its applications, the trigonometry of the right spherical triangle, and logarithms. **Three hours, second semester.**

4. **Plane Analytic Geometry.**—The analytic geometry of the straight line, the circle, and the conic sections, including a discussion of the general equation of the second degree, and some special examples in higher loci. **Five hours, first semester.**

5. **Differential Calculus.**—Development of the fundamental principles and formulas, applications to various problems in geometry and analysis. **Five hours, second semester.**

6. **Differential and Integral Calculus.**—Advanced course. **Three hours, both semesters.**

7. **Differential Equations.**—Three hours, both semesters.

8. **Continuous Groups.**—Based on the lectures of Sophus Lie. **Two hours, both semesters.**

9. **Descriptive Astronomy.**—A general course, requiring only the mathematics of Courses 1-3. Open to students in the last two years of the college course. **Two hours, both semesters.**

Major Work: Twenty-four semester hours.

MUSIC.

Professor Walter Fisher Skeele.

Students who take harmony and theory, or advanced instrumental or vocal work in the College of Music may be allowed college credit for the same, but the credit shall in no case exceed eight semester hours, and will be given only upon the recommendation of the Dean of the College of Music.

ORATORY.

Professor Beulah Wright.

1. **Vocal Expression:**

(a) Principles of expression, voice building and tone placing. Expression of the body. Interpretation of literature from the text. **Two hours, either semester.**

(b) Advanced vocal training and bodily expression. Interpretation from modern authors. Kipling, Van Dyke, Stevenson, Maclaren, and others. **Two hours, either semester.**

2. **Public Speaking.** Extemporaneous work. Preparation and delivery of short speeches, such as talks on current public questions, toasts, discussions and debates. **Two hours, both semesters.**

3. **Oratory.** A study of masterpieces of oratory. Text, Sears' History of Oratory and Modern Eloquence. The preparation and delivery of one original oration. **Two hours, either semester.**

4. Bible and Hymn Reading. Vocal Expression of the Bible and Hymns, Voice building. Text, Curry's Vocal and Literary Interpretation of the Bible. **Two hours, either semester.**

5. Vocal Interpretation:

(a) Lyric Poems. Training of the Imagination. Studies in Tenlyson, Burns, Browning, Wordsworth and others. **Two hours, first semester.**

(b) Shakespeare: Julius Caesar or Hamlet; As You Like It or Much Ado About Nothing. **Two hours, second semester.**

Provision is made for a special class in the principles of Expression, for those students who enter the college without the required Preparatory School work.

This is an elementary course of two hours for one semester; no college credit will be allowed for it.

Students elect the above courses at their expense. (See College of Oratory).

PHILOSOPHY AND EDUCATION.

Professor James Harmon Hoose.

Philosophy.

1. Psychology.—The aim in this subject is to acquaint the student with what is valuable in the investigations in Mental Science. Text-books, lectures, and original investigations. Prerequisite to Courses 3, 4, 5, 6 and 7. This course is the required work in Philosophy. **Three hours, both semesters.**

2. Logic.—The elements in this subject are given in Jevons' Logic, with practical exercises. **Three hours, first semester.**

3. Ethics.—A study of ethical principles from the ordinary philosophic standpoints. **Two hours, first semester.**

4. Theism.—A study of the subject as given in Iverach and Bowne. Lectures. **Two hours, second semester.**

5. History of Philosophy.—Weber's History of Philosophy, and Ueberweg's History of Philosophy, covering the an-

cient Greek Philosophy. Prerequisite for Course 6. **Three hours, first semester.**

6. **History of Philosophy.**—Modern Philosophy, with readings from the more important philosophers. **Three hours, second semester.**

7. **Metaphysics.**—Lectures, readings and dissertations. For Seniors. **Two hours, second semester.**

Education.

Psychology is prerequisite to this course, and will constitute the first four hours of the field. The course extends two years, giving four terms of two hours each—or eight hours in all. The full course covers twelve hours of work in education.

Lectures, Texts, Readings, Original Investigations.

1. **The Form and Content of Education.** (1) Critical studies into the Psychological Form and Content of Education as it exists in Civilization. This study includes an inquiry into the psychology of progress in Civilization. (2.) An examination of Ancient Civilization in order to discover the efficient educating agencies that wrought the practice and theory of living that was current in those civilizations. Civilization is conceived to be the form of human living existing in any social group,—tribe, community, state, nation—at any given time and in any given place. **Two hours, first semester.**

2. **The History of the Mediaeval Period.** An historical and philosophical investigation of the forms of civilization and education which prevailed during the Mediaeval Period, devoting special attention to the forms in which education developed into systems and institutions. **Two hours, second semester.**

3. **Educational Reformers.** A review of the work of the so-called Educational Reformers who appeared upon the educational field from Luther down to modern times. This course will be historical and philosophical, touching systems and institutions, and educating agencies. **Two hours, first semester.**

4. **The Theory and Practice of Education.** This course investigates primarily the psychology of the Acts of Learning. It investigates secondarily the form of the subject matter that is to be learned. It inquires thirdly into the psychology of the mind that teaches, and how this mind builds up the Science and Art of Teaching. **Two hours, second semester.**

PHYSICAL EDUCATION.

Professor Harvey R. Holmes.

Elsie Vanderpool, Director of Women's Gymnasium.

Gertrude Comstock, Director of Outdoor Sport for Women.

Oliver J. Schieber, Assistant in the Men's Gymnasium

1. **Systematic class work in gymnastics for men.** The work consists of vigorous drill with dumb-bells, Indian clubs, and wands, besides progressive graded work on the various pieces of gymnastic apparatus. Required of all first year students. **Two hours, both semesters.**

Prof. Holmes.

2. **An advanced course for men combining light and heavy gymnastics.** Required of all second year students. **Two hours, both semesters.**

Prof. Holmes.

3. **Out door sports and light gymnastics for women;** tennis, basket ball, volley ball, light work on the ladies athletic field; recreative games and simple use of apparatus. **Two hours, both semesters.**

Miss Comstock.

4. **An advanced course for women.** Advanced exercises with chest weights, dumb-bells, Indian-clubs, ladders and rings. Difficult free work with rhythmical drills for grace and harmony of movement. Required of all second year students. **Two hours, both semesters.**

Miss Vanderpool.

PHYSICS.

Professor, Geo. S. Beane.

Instructor, Arthur W. Nye.

Assistant, Frederic R. Brown.

Laboratory Assistant, F. Cogswell.

Laboratory Assistant, C. Parmenter.

1. **General Physics.** This course includes a systematic

development of principles together with a consideration of the practical applications. Instruction is given by illustrated lectures, problems, recitations and laboratory exercises. Prerequisite Math. 3. **Three hours, first semester.**

2. General Physics. A continuation of Course 1, dealing mainly with Heat and Electricity. **Three hours, second semester.**

3. Mechanics. An advanced laboratory course continuing course 1. **Two hours credit, either semester.**

4. Applied Electricity. This deals with the fundamental principles of Applied Electricity and Magnetism. Prerequisite Physics 2. **Two lectures or recitations each week, first semester.**

5. Analytic Mechanics. An advanced course. **Three lectures or recitations each week. Prerequisite Physics 1. Math. 5. Either semester.**

6. Electrical Measurements. A practical course in which theory and methods of exact electrical determinations are studied, including use of Ballistic Galvanometer, and condensers, the measurement of induced currents and permeability—**Four hours, either semester.**

7. Light. Theoretical and experimental. **Fours hours.** Hours to be arranged with the professor. **First semester.**

8. Heat. Based on Preston's Theory of Heat. **Four hours.** Alternates with Physics 7.

9. Theoretical or Mathematical Electricity. **Two hours, second semester.**

10. Physical Constitution of Matter. A review of the theory in regard to matter as developed by J. J. Thompson, Rutherford, and others. Credit and hours to be arranged with the Professor.

11. History of Physics. Cajori's History of Physics will be the Text. **Hours to be arranged.**

12. Graduate Courses leading to the Master of Arts in Physics will be arranged to meet the needs of those applying for the same.

Students who major in Physics will elect Mathematics or Chemistry as a minor, with enough German to give them a reading knowledge of the language.

Courses 1 and 2 are fundamental and prerequisite to all other courses.

Courses 1 to 5, inclusive, are required of all candidates for the degree of Bachelor of Arts who major in Physics.

Courses 1 to 6, inclusive, are required of all candidates for the degree of Bachelor of Science in Electrical Engineering.

SPANISH.

Professor Katherine T. Forrester.

1. **Elementary Spanish.** Monsanto and Languiller's Spanish Grammar, Worman's Readers, and short stories by Juan Valera, Maria del Pilar Sinues, etc. Drill in grammatical forms, exercises in pronunciation, reading and writing. There is a constant effort to make it a practical course by training the ear as well as the eye. **Four hours, both semesters.**

2. **Reading, Writing and Conversation.** Finish and review of the grammar. Readings from Juan Valera, Antonio de Trueba, Emilia Pardo Bazar, etc. Conversations and sketches based on text. **Three hours, both semesters.**

3. **Advanced Spanish Composition.** Ramsey's Progressive Exercises used in connection with Ramsey's Grammar. Reading from principal Spanish authors; Antonio de Trueba, Fernan Caballero, Pedro Antonio de Alarcon, etc. **Three hours, both semesters.**

4. **History of Spanish Literature.** Butler Clark and Gil y Zarate used as references. Sketches of Spanish authors written in Spanish. Readings, from Don Quijote, Gil Blas, etc. The aim in this year's course is to have all the work done in the Spanish language. **Two hours, both semesters.**

ENGINEERING COURSES.**REQUIREMENTS FOR ADMISSION.**

The requirements for the Engineering Courses are stated under Group D. (p. 26)

The prescribed subjects required for graduation are given under the separate courses,

The degree of Bachelor of Science in Civil Engineering is conferred upon such candidates as may successfully complete the four years course in Civil Engineering. (see p. 67)

The degree of Bachelor of Science in Electrical Engineering is conferred upon such candidates as may complete the four years course in Electric Engineering. (see p. 72)

The professional degrees of Civil Engineer, and Electrical Engineer are conferred on graduates of this University in the Civil Engineering and Electrical Engineering courses respectively, on the satisfactory completion, in residence, of one year of post-graduate study, or on having been engaged in the active practice of their profession for at least three years, two of which shall have involved responsibility, and the presentation of an approved thesis showing ability to do independent work.

ENGINEERING DRAWING.

Instructor

1. **Drawing:** Linear drawing and lettering, freehand drawing, mechanical drawing, detail drawing with plans, elevations and sections, conventional cross-sectioning, tracings and blue prints. **Six hours, two units, first semester.**

2. **Drawing:** Tinting and shading, pen and colored topography, isometric perspective, lettering and titles for maps and drawings. **Six hours, two units, second semester.**

3. **Descriptive Geometry:** Lectures and drawing, including representations of lines, surfaces and solids, with their intersections, tangencies, and developments; shades and shadows, linear perspective, and stereotomy. **Six hours, two units, first semester. Three hours, one unit, second semester.**

CIVIL ENGINEERING.**Professor John B. Johnson.****Professor**

Requirements for admission on page 26. The course in Civil Engineering has been made as broad as possible in order to provide a sufficient foundation for the wide range of practice included under Civil Engineering at the present time. Very few college students know in what part of this wide field their life work will lie. Because of this, and the great difficulty of mastering fundamentals during the stress of professional work, it has seemed wise to provide a broad university preparation and to defer specialization to the period of active employment.

The course is designed to give a practical as well as theoretical training. Nearly as much time is spent in the drawing room, laboratory, and field, as in the lecture room.

By consulting the schedule on page 67 it will be seen that considerable time is devoted to Mathematics, English, Modern languages, and Sciences. Of the more technical work, the Field Engineering, including topographical and railroad Engineering is given very full treatment in lecture room, office and field.

In the third year Theoretical Mechanics is so thoroughly developed as to form a basis for the designing and construction which occupies the remainder of the course. Throughout the course the importance of correct methods of thought and practice is constantly inculcated.

REQUIRED COURSE IN CIVIL ENGINEERING.**First Year.**

		No. of Course.....	1st Semester Units.....	2nd Semester Units.....
Analytical Geometry	Math.	4.	5.	
Calculus	Math.	5.		5.
Chemistry	Chem. 1, 2, 3, 4.	5.	5.	
Surveying Lectures and Recitations..	Civil En'g	1.	2.	2.
Surveying Field Work and Drawing..	Civil En'g	2.	1.	1.
Drawing	En'g Drawing	1.	2.	
Drawing	En'g Drawing	2.		2.

Second Year.

		No. of Course.....	1st Semester Units.....	2nd Semester Units.....
Descriptive Geometry	En'g Drawing	3.	2.	2.
Materials of Engineering	Civil En'g	14.	3.	
Physics	Physics	1, 2.	3.	3.
German or French or Spanish	Germ. or Fr. or Sp.	2.	3.	3.
Mineralogy	Geology	2.	2.	2.
Higher Surveying	Civ. En'g	3.		2.
English	English	A 1.	3.	3.

Third Year.

Analytical Mechanics	Civ. En'g	9.	3.	2.
Mechanics of Materials	Civ. En'g	10.	2.	3.
Graphical Statics.....	Civ. En'g	16.	1.	
Stresses in Framed Structure	Civ. En'g	17.		2.
Mechanism and Steam Engineering...				3.
Hydraulics	Civ. En'g	11.		3.
Railroad Engineering, Lectures and Recitation	Civ. En'g	5.	2.	
Railroad Engineering, Field Work ...	Civ. En'g	6.	3.	
Railway Economics	Civ. En'g	8.		2.
Railroad Engineering, Office Work ..	Civ. En'g	7.	1.	
Electrical Engineering	El. En'g		3.	

Fourth Year.

Structural Design	Civ. En'g	19.	3.	3.
Foundations	Civ. En'g	15.	2.	
Tunneling and Mining	Civ. En'g	21.		1.
Geology	Geology	1.	2.	2.
Astronomy	Math.	9.	2.	2.
Geodetic Surveying	Civ. En'g	4.		2.
Engineering Laboratory	Civ. En'g	18.	1.	
Contracts and Specifications	Civ. En'g	23.		2.
Water Supply and Irrigation	Civ. En'g	12.	2.	
Sanitary Engineering	Civ. En'g	13.	2.	
Highway Engineering	Civ. En'g	20.		2.
Canal Construction and River and Harbor Construction	Civ. En'g	22.	1.	
Thesis	Civ. En'g	24.		1.

COURSES IN CIVIL ENGINEERING.**Surveying and Geodesy.**

1. **Surveying.** An elementary course including use and care of surveying instruments and the methods of making land surveys; measuring angles with the transit; leveling for profiles; establishing a meridian with solar compass or solar attachment, and the methods of city and mining surveys. **Two hours, throughout the year.**

2. **Surveying Field Work.** The practical adjustment of surveying instruments; the proper method of keeping clear field notes, and the performance of field problems with chain, tape, level, plane table, transit, compass etc. The work in the drawing room consists of platting the field notes and making profiles and maps. **Two hours, one unit, throughout the year.** Course 1 to be taken concurrently.

3. **Higher Surveying.** Topographical surveys with plane table and stadia; city surveys; mining and hydrographic survey methods; use of sextant and barometer. Lectures, recitations and Field work. **Four hours, two units, second semester.** Prerequisites, Courses 1 and 2.

4. **Geodetic Surveying.** A course treating of methods of conducting geodetic surveys including determination of the form of the Earth, base line measurements, triangulation, precise leveling, least squares and astronomical problems. **Two hours, second semester.**

Railroad Engineering.

5. **Railroad Engineering.** A course including the theory of curves, switches and sidings; the making of reconnoissances, and preliminary and location surveys; the computation of Earth-work and determination of structures, and making final estimates of cost. **Two hours, lectures and recitations, first semester.** Prerequisites, Courses 1 and 2.

6. **Railroad Engineering Field Work.** Practice in laying out curves and making complete surveys for a short line of railway. **Nine hours, three units, first semester.**

Course 5 must be taken concurrently.

7. Railroad Engineering Office Work. In this course the field notes of the term are fully worked up in making profiles, maps, computations and estimates of cost. **Three hours, one unit, first semester.**

Courses 5 and 6 must be taken concurrently.

8. Economics of Railway Location. The influence of grades, curves, tunnels, rise and fall, etc., is studied with regard to effect upon cost and operating expenses of steam and street railways. **Two hours, second semester.**

Prerequisite Course 5.

Mechanics and Hydraulics.

9. Analytical Mechanics. The mathematical treatment of statics, kinematics and dynamics, including determination of center of gravity, moment of inertia, centrifugal force, etc. **Three hours first semester; two hours second semester.** Prerequisite Course Mathematics 5.

10. Mechanics of Materials: A mathematical course in resistance and elasticity of materials, stresses and strains, shearing, flexure, beams, columns, shafts. **Two hours, first semester; three hours, second semester.** Course 9 must be taken concurrently.

11. Hydraulics: Hydraulic pressure, strength of pipes, flow of liquids through pipes and orifices and over weirs, losses of head, flow of water in open channels, dams of masonry and earth, hydraulic motors and machinery. **Three hours second semester.** Prerequisite Course 9.

12. Water Supply and Irrigation Engineering. Determination of quantity and quality of supply, water purification, and conservation, design of a system, diversion, conveyance and application of irrigation water. **Two hours, first semester.** Prerequisite course 11.

13. Sanitary Engineering. Drainage of buildings, treatment and disposal of sewage, sewer systems for cities. **Two hours, first semester.** Prerequisite Course 11.

Engineering Construction.

14. Materials of Engineering. A study of the manufacture and properties of stones, cements, concretes, timber, iron,

steel, etc., with special attention to determination of safe working stresses. **Three hours, first semester.**

15. Foundations. The foundations of bridges and buildings, coffer dams, piers, pile-driving, caissons, masonry and re-enforced concrete arches, retaining walls. **Two hours, first semester. Prerequisites, Courses 9 and 14.**

16. Graphical Statics. The graphical determination of the stresses in engineering structures. **Three hours, first semester. Course 9 must be taken concurrently.**

17. Stresses in Framed Structures and Arches. The analytical and graphical methods applied to determining stresses in roof and bridge trusses, and masonry arches. **Two hours, second semester. Prerequisite Course 16.**

18. Engineering Laboratory. Testing iron, steel, timber, cements, stones and concretes. **Three hours, one unit, first semester. Prerequisite Course 14.**

19. Structural Design. Theory for and practice of making complete designs for steel bridges, roofs, and other structures. Lectures, drawing and computing. **Six hours, three units, throughout the year. Prerequisites, Courses 10, 14 and 17.**

20. Highway Engineering. Roads and streets of broken stone, paved and oiled roads, location of new roads. **Two hours, second semester.**

21. Tunneling and Mining. Excavation, lining, ventilation, and drainage of tunnels and mines; sinking shafts, pumping and hoisting. **One hour, second semester. Prerequisite, Course 11.**

22. Canal Construction and River and Harbor Improvement. A short course of twenty hours including canals, locks, breakwaters, levees, etc. **One unit, first semester. Prerequisites, Courses 11 and 15.**

23. Contracts and Specifications. A synopsis of the law of contracts as applied to Engineering construction and a study of typical contracts and specifications. The course includes riparian rights, boundary lines, survey descriptions, etc. **Two hours, second semester,**

24. **Thesis.** A study of some special engineering problem or an independent investigation by the student. The subject must be approved by the professor in charge of the department of Civil Engineering and by the professor who would have immediate direction of the work proposed, not later than November 1st of the Senior year. It must be completed and submitted by June 1st of the same year. **One hour, second semester.**

ELECTRICAL ENGINEERING.

Professor Geo. S. Beane.

Instructor Arthur W. Nye.

Lecturer

The courses offered in this department are designed to fit young men to engage in the operation and production of electrical apparatus, also in the applications of electricity to the Arts and Sciences.

During the freshman and sophomore years there is laid a broad foundation, consisting of Physics, Mechanics, Chemistry, Surveying and Language. During the junior and senior years, special studies in electricity and applied electricity are pursued. These involve the theory of electricity and magnetism, with application to direct current machines and measuring instruments, the theory of alternating currents and alternating machinery and apparatus, comprising alternators, synchronous and induction motors and rotary converters. Courses are also given in Electrical Distribution and Transmission, Lighting and Power plants.

The work in the Engineering Laboratories is co-ordinated with the lecture and class room and, aims to give a practical knowledge of electrical measurements and the handling of electrical machinery.

Southern California in its present state of rapid development, offers exceptional opportunity to the hydraulic and electrical engineer. The work of the University is splendidly supplemented by the large amount of work under construction. The engineers and superintendants in charge of these have been very courteous in aiding the classes on their

various trips of inspection. The various power and electric plants in and about Los Angeles afford excellent examples of electric development of high tension and power transmission not surpassed by any other in the United States. Various excursions to these plants and lectures by superintending engineers are some of the features enjoyed by the students of the department.

REQUIRED COURSE IN ELECTRICAL ENGINEERING.

First Year.

		No. of Course.....	1st Semester Units.....	2nd Semester Units.....
Analytical Geometry	Math.	4.	3.	
Calculus	Math.	5.		3.
Drawing	En'g Drawing	1.	3.	
Drawing	En'g Drawing	2.		3.
Chemistry	Chem.	1.	3.	5.
Chemistry	Chem.	2.	4.	5.
English	English	A 1.	3.	3.
German, or French, or Spanish	Germ., or Fr.			
	Span.	3.	3.	3.
Shop			1.	1.

Second Year.

Physics	Physics	1.	3.	
Physics	Physics	2.		3.
Calculus	Math.	6.	3.	
Analytical Mechanics	Civ. En'g	9.	3.	2.
Descriptive Geometry	En'g Drawing	3.	3.	
Machine Design				2.
Physical Laboratory	Physics	3.	2.	
Electrical Measurements	Physics	6.		3.
Surveying	Civ. En'g	1, 2.	3.	3.
Economics				3.

Third Year.

Mechanics of Materials	Civ. En'g	10.	2.	2.
Dynamo Elect. Machinery	Elec. En'g	2.		3.
Applied Electricity	Elec. En'g	1.	2.	
Industrial Chemistry	Chem.		3.	
Machine Design			2.	
Dynamo Laboratory	Elec. En'g.	3.		4.
Stresses and Structures	Civ. En'g	17.	2.	
Steam Engineering.....				3.

		No. of Course.....	1st Semester Units.....	2nd Semester Units.....
Primary and Secondary Batteries ...	Elec. En'g	13.	1.	
Graphical Statics	Civ. En'g	16.		1.
Electrical Measurement and Photo- metry	Elec. En'g	5.	4.	
Economics	Econ.	4.		3.

Fourth Year.

Alternating Currents	Elec. En'g	4.	3.	
Hydraulics	Civ. Eng	11.		3.
Electrical Design	Elec. En'g	6.	2.	
A. C. Machinery	Elec. En'g	9.		4.
Central Station and Electrical Light- ing	Elec. En'g	7.	2.	
Commercial Testing and A. C. Ma- chinery	Elec. En'g	8.	3.	
Power Transmission	Elec. En'g	10.		2.
Excursions, Abstracts and Reports ..	Elec. En'g	14.	2.	
Design	Elec. En'g	11.		2.
Foundations	Civ. En'g	15.	2.	
Contracts	Civ. En'g	23		2.
Electric Railways	Elec. En'g	12.	2.	
Thesis	Elec. En'g	15.		3.

COURSES IN ELECTRICAL ENGINEERING.

1. **Applied Electricity.** Practical units of current, potential and resistance, quantity, measurements of work and power, commercial instruments, dynamo principles. Prerequisite Physics 1 and 2. **Two hours, first semester.**

2. **Dynamo Electric Machinery.** The theory of the direct current, fundamental types of direct current, generators and motors. Based on Sheldon, Vol. 1. Prerequisite, Course 1. **Three hours, second semester.**

3. **Dynamo Laboratory.** Experimental study of direct current machinery. Prerequisites, Course 2. **Four hours, second semester.**

4. **Alternating Current Theory.** Based on Franklin and Williamson, **Three hours, first semester,**

5. **Electrical Measurement and Photometry.** Laboratory work. Four hours, first semester.

6. **Electrical Design.** Complete design of a direct current machine. Two hours, first semester.

7. **Central Stations and Electric Lighting.** Electric lighting systems, location design and operation. Two hours, first semester.

8. **Commercial Testing and Operation.** Operation, efficiency tests, curve plotting, arc lamps, protecting devices etc. Prerequisite, 2 and 3. Three hours, first semester.

9. **A. C. Machinery.** Alternators, transformers, rotary converters, synchronizing, regulation, E M F. current and power curves. Prerequisite 4. Four hours, second semester.

10. **Power Transmission.** Methods of distribution, systems, overhead and underground lines, testing, capacity, and insulation. Two hours, second semester.

11. **Electrical Design.** The complete design in detail of some commercial alternating machine or apparatus. Two hours, second semester.

12. **Electrical Railroads or Traction.** Details of systems, types of motors, controlling, accumulators, etc. Two hours, first semester.

13. **Primary and Secondary Batteries.** One hour, first semester.

14. **Excursions, Abstracts, and Reports.** Two hours, first semester.

15. **Thesis.** A study of some special problem or original investigation under the supervision of the head of the department. Three hours, second semester.

GENERAL INFORMATION.

The College of Liberal Arts of the University of Southern California is situated in Los Angeles, about three and one-half miles southwest from the business section of the city. The College buildings are accessible by three lines of street cars, the Main Street, University and L. A. Interurban lines. This is one of the most beautiful and rapidly growing residence

portions of Los Angeles. The campus, comprising ten acres, has been improved by cement sidewalks and street grading on all sides, and a lawn in front of the main building. The University Methodist Episcopal Church is located near the campus, and is one of the most prosperous churches in the city. The Baptists and Presbyterians also have churches in the near vicinity. These advantages, together with fine public school privileges, make the University section of the city a very desirable place of residence for families seeking educational opportunities.

Religious Privileges.

The moral atmosphere surrounding the student is exceptionally good. The Young Men's Christian Association and the Young Women's Christian Association are active and effective in social and religious life.

In addition to the daily chapel exercises, courses of special sermons are delivered from time to time. These privileges constitute a good Christian atmosphere in which to lay the foundation of character. Students are expected to attend some Church each Sabbath, and are advised to join some Sunday class for the study of the Bible.

The University provides, during the College year, a free course of lectures dealing largely with biblical subjects.

Summer Session.

The summer session for 1906 of the Colleges of Liberal Arts, Oratory and Music, was held in the Liberal Arts building, June twenty-fifth to August fourth.

Courses were offered in Philosophy and Education, English, History, French, German, Spanish, Botany, Physics, Mathematics, Physical Education, Oratory, and Music.

The attendance on these courses and the inquiries received by the University indicate a wide-spread demand for work during the summer of 1907.

The regular faculty will offer for the summer of 1907 in the the College of Liberal Arts building, the following courses beginning June 25th and closing August 2nd.

English, History, Philosophy and Education, Botany, Physics, German, French, Spanish, Italian, Latin, Greek, Mathematics, Physical Education and Oratory.

More detailed information will be mailed about April fifteenth, on request.

Literary Societies.

The Aristotelian Literary Society is the oldest of the societies connected with the College. It is a society for young men and has a large and well furnished hall in which to hold its meetings.

The Comitia, a newly formed literary society for young men, is in a flourishing condition.

The Athena and Clionian Societies are for young women. They have finely furnished halls, and are doing excellent work.

Library and Reading Room.

The library is large and well lighted, carpeted, and furnished with shelving sufficient to hold about ten thousand volumes, with new tables and chairs for the convenience of the students. The number of volumes actually accessioned, public documents, and pamphlets is nine thousand three hundred and forty-two. The largest recent addition to the library is the "Dean George Cochran, D. D. Memorial Library" placed in the University by his son, George I. Cochran. Several hundred volumes chosen with especial care to meet the needs of the various departments of the University have been added to this collection during the year.

The Museum.

An extensive collection of specimens in mineralogy and geology has been accumulated during the past years, by donations and purchase. Professor Dickinson, the first curator, opened the museum and classified it, making many donations from his own excellent private collection.

A few years ago the trustees purchased from Dr. Stephen

Bowers a large collection of geological, mineralogical, and archaeological subjects.

The Rev. C. R. Pattee, D. D., has donated about five hundred species of West Coast shells, a valuable geological, paleontological, mineralogical and conchological collection.

Physical and Electrical Engineering Laboratories.

The departments of Physics and Electrical Engineering occupy nine rooms on the first floors of the main building and Science Hall. These have been planned and equipped exclusively for the departments and are suited to the purpose for which they are used.

Laboratories.

The Laboratories set apart for the Departments consist: (1.) General Physical Laboratory. (2.) Electrical Laboratory. (3.) Photometry room. (4.) Physical Optics. (5.) Dynamo and Motor room. (6.) Research room. (7.) Shop. (8.) Battery room.

The equipment is furnished by the best American and European makers. It is of recent purchase—modern and best quality. The department of General Physics is very complete. For advanced work in Heat and Light there are several pieces of fine apparatus. In Mechanics and Electricity there is ample for advanced work of high order. Special mention may be made, (1.) Apparatus of precision by Gartner & Co.; (2.) Resistance Boxes, Meter & P. O. Bridges, Potentiometers, Dynamometers, Standard cells, Ballistic and moving coil Galvanometers by Leeds Northrup Co.; (3.) Weston Standard Ammeters & Voltmeters, Permeameters by Nalder Bros., London, etc.; (4.) Spectrometers, Spectrophotometers, prisms and gradings; (5.) Direct current and Alternating current generators, Direct current and Induction motors, 2. Rotary converters, Transformers, Meters, Switchboards and Switching devices.

The General Laboratory is furnished with a number of Standard reference works on Physics.

The Chemical Laboratory.

The department of Chemistry occupies the second floor of the new south wing of the main building. The laboratory for general chemistry will accommodate eighty students; that for quantitative chemistry twenty-two students; that for organic chemistry twenty students. The laboratories are thoroughly equipped with modern laboratory tables, water, gas, apparatus, and chemicals; they contain a large number of hoods and all of the conveniences of a modern laboratory. The balance room is a separate room well-lighted and equipped with twelve fine analytical balances. The store-room is accessible from the different working laboratories and is supplied with a large quantity of apparatus and chemicals of the best make. A special research laboratory accommodating twenty-five students is thoroughly equipped in the basement with storage batteries for electro-chemistry, also with combustion apparatus and special apparatus for determining molecular weight. The laboratory is also equipped for investigations on oil and gas. The equipment consists of stills, hydrometers, viscometers, Atwater's bomb calorimeters for heat determination. Junker's patent gas calorimeters, Hempel's gas apparatus, Elliot's sulphur apparatus and a thermo-electric pyrometer.

Assay and Metallurgical Laboratory.

This laboratory occupies a large room in the basement. The equipment consists of rock crushers, ore grinders of several kinds, amalgamating fans, etc., all driven by electricity. The furnaces are of the latest type, using gas for fuel. The equipment includes all the necessary apparatus for all kinds of assay work. The equipment includes apparatus for concentration and amalgamation tests as well as a complete cyanide and chlorination plant. Special facilities are afforded for the electrolytic-reduction processes. The laboratory is modern in every detail.

The Biological Laboratories.

The entire second floor of the new north wing of the main building is devoted to the biological laboratories and lecture

room. The laboratories are so planned that each student has abundant light, 110 feet of desks face immediately to the north. Each student is supplied with a heavy single desk of slash grained pine, containing two drawers and microscope locker each with Craig combination locks.

The Zoological Laboratory, 34x45 feet, contains now forty-seven single desks and a large demonstration table 4x11 feet with drawers and cupboards on each side for supplies. The laboratory is provided with black board, glass cases for books, reagents and specimens; a sink, aquarium and drip for keeping living specimens. Each student is furnished a compound microscope, BA 2 or BB 2, dissecting instruments and necessary materials for dissection and study.

The Botanical Laboratory is thirty by forty-five feet. It contains forty-four single desks with drawers, locker and Craig combination locks for each; a large demonstration table; cases for twenty thousand herbarium specimens, books and supplies; black boards, sink, aquarium and drip. A compound microscope, dissecting instruments and materials are furnished each student.

The Laboratory for Bacteriology and Physiology is 29x46 feet, facing the north. It is supplied with autoclav, arnold and hot air sterilizers, incubators, glassware and all other necessary equipment for work in bacteriology. There are thirty-one single desks in this laboratory, a large demonstration table, two hoods and cooling chamber, sink, tank, tables, cupboards and cases for reagents and supplies. All the necessary materials, apparatus and instruments including BB 8 Bausch and Lomb microscopes are furnished the student. For Physiology the laboratory is supplied with all the necessary reagents and apparatus such as microscope, haemocytometer, dissecting instruments, etc., for successful laboratory work. A complete set of the Harvard Physiological apparatus has been added. For Histology and Embryology the student is supplied with BB 8 microscope and has the use of the Minot automatic rotary microtome, Bausch and Lomb's automatic laboratory microtome, and all reagents necessary to carry on successfully this work.

The research laboratory, 15x17 feet, adjoins the office of the department which is also 15x17 feet. The equipment of these rooms is such as adapts them to advanced work along special lines. The best microscopes of German and American make are available, including Bausch and Lomb, CC 8, Zeiss Ila, with achromatic and a set of apo-chromatic objectives with compensating eye pieces. Other microscopes of the Leitz and Spencer types, also imbedding baths, centrifuge, camera, numerous microscope accessories and instruments are provided.

The lecture room is 32x36 feet with raised seats. It has a seating capacity of about two hundred and is provided with sky light and fitted with screens for darkening to adapt it to the use of the electric projection apparatus and stereopticon which form part of the equipment. The lecture desk which is fitted with drawers and cupboards can be adjusted instantly for gas or water for demonstration purposes. This room as well as all others is well supplied with electric lights.

The wide halls have been provided with glass cases in which are placed a large collection of birds, mollusks and alcoholic specimens for demonstration and study. The collection of mollusks is very complete, representing over eighteen thousand specimens.

Athletics and Physical Culture.

The Faculty of the College of Liberal Arts, recognizing that physical culture is both hygienic and educative, desires to encourage every reasonable effort in the direction of physical development consistent with strong manhood and womanhood. On its hygienic side it should aid the body in all its functions, develop a symmetrical form, correct deformity as far as possible, and afford recreation. In its educative function it should afford the discipline necessary for self-control, both mental and moral.

There are two active tennis clubs with three well kept courts. A golf club has been organized for students and professors. Play is held on the Hotel Raymond links in Pasadena.

Gymnasium and Athletic Grounds.

Athletic sports are encouraged for their value in developing the body, in furnishing a means of pleasant recreation, as well as a source of social and ethical culture, and in cultivating the spirit of co-operative enterprise.

The gymnasium has been fitted with appliances for the proper development of the body. The necessary apparatus of the newest and most approved designs has been provided. The Director has made preparations for the training in the gymnasium of both the young men and young women, who will have separate lockers and baths and use the building at different periods of the day. The students have all the advantages of the gymnasium, with baths, lockers and dressing room accommodations.

A complete equipment is provided for each form of exercise. Galleries will afford audience room for special gymnastic exercises when such are open to the public.

A commodious athletic field of several acres affords abundant room for out-door exercises. The Athletic Director, in connection with the President of the University, has control of the athletic grounds, games, and sports of the University, and has laid out fields for basket-ball, volley-ball, baseball, and football, the last named field being encircled by a one-fourth mile cinder running track. There are also several tennis courts.

All the work of the Department of Physical Education, and Athletics will be under the supervision of Professor Harvey R. Holmes, Ph. B.

Each student, on entering the department, undergoes a thorough physical examination, in order that his physical condition may be known to the Director, and suitable exercise prescribed. Various strength tests and measurements are given; the heart, lungs, and eyes are examined, and the utmost caution used in the advice given regarding individual exercise. One examination during each semester is required, the latter demonstrating any improvement or change in the student's physical condition. Anthropometric cards and charts are plated for students when desired.

Systematic class work in gymnastics is required on two days of the week, of all Freshmen and Sophomores. This work consists of vigorous drill with dumb-bells, clubs, bar-bells, etc., besides progressive graded work on the various pieces of gymnastic apparatus, and gymnastic games, always under the careful supervision of the Director.

During the second semester lectures on the physiology of exercise, personal hygiene, health culture, etc. are given to the college students. These lectures are illustrated by various charts, lantern slides, etc., and take the place of the regular gymnasium classes on the days when the lectures are given.

Athletic Contests.

All athletic and team contests are under close supervision of the Director and no student is permitted to compete in games or contests whose physical examination shows that he or she is unfit.

Any person who desires to enter athletic contests must attain a certain standard of scholarship before being permitted to participate.

Gymnastics for Women.

Before entering upon this training every student is given a thorough physical examination by Miss Vanderpool, in order that only such exercises may be given as are suited to the student's individual needs. If owing to any physical inability to take the work with the regular classes it seems necessary to take special corrective work, private instruction may be arranged for.

The regular course includes gymnastics, athletics and physical culture. A combination of the Swedish and German system of gymnastics is used.

The gymnasium is well equipped with apparatus. All work must be done under the Supervision of the Director.

The athletic grounds are adjacent to the gymnasium and participation in out-door sports is expected of all young women taking physical training. They may elect tennis,

volley-ball, or basket ball. Steps are being taken to secure a hockey field, and it is hoped that hockey will soon be one of the regular outdoor sports. The University basket ball team is a member of the Young Women's Basket Ball League of Southern California, and the young women who show greatest proficiency in basket ball are chosen to represent the University in intercollegiate games.

Students are required to provide themselves with a special suit for gymnasium exercises. The Director must be consulted in this matter, in order that there may be uniformity of costume.

For information in regard to the Professional Course for teachers, see College of Oratory.

Scholarships.

The Hugh Johnston Scholarship.

This scholarship was founded by Mrs. Anna H. Johnston, of Pasadena, in memory of her deceased husband, and is for the benefit of needy students. Mrs. Johnston will name the incumbent when she desires. Otherwise this will be done by the authorities of the University.

The Spence Scholarship.

This scholarship was founded by the Hon. E. F. Spence in his life time, and is devoted to the use of needy students in the San Diego district, upon recommendation of the Presiding Elder of that district.

The A. C. Hazzard Scholarship.

A thirty-year scholarship founded by Rev. A. C. Hazzard, of Whittier, for the benefit of students preparing for Christian work.

The A. M. Peck Scholarship.

Founded by A. M. Peck of Compton.

The Poplin Scholarship.

Founded by F. L. Poplin of Los Angeles. The incumbent to be named by the founder.

The Ontario Scholarship.

For the benefit of graduates of the Ontario High School.

Others contemplate the establishment of prizes and scholarships, and it is earnestly hoped that soon a goodly number can be offered. Friends of the school can greatly add to its attractiveness in this way.

PRIZES.

The Lottie Lane Prize.

This prize, established by Mrs. Charlotte A. Thomson as a memorial to a deceased daughter, is an elaborate gold medal, to be presented each year at Commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole college course. Students who have taken more than four academic years to complete the course or those who have received credit for work done elsewhere than in this College, are not eligible for this prize. This medal was awarded in 1906 to Miss Wilhelmine M. Rodenberg.

The Oratorical Prize.

The Phi Alpha Fraternity gives an annual prize of twenty-five dollars for the best oration delivered in the local contest by an undergraduate; the Oratorical Association in addition offers a second prize of fifteen dollars and a third prize of ten dollars.

The first prize was awarded in 1906 to Mr. Ernesto B. Garcia, who also won the first place in the intercollegiate contest.

Gifts to the University.

The Hough Fund. This is a fund of \$65,000 given by Rev. Asahel M. Hough, deceased, and his wife, Anna G. Hough, of Los Angeles. It is to be held by the University in perpetuity, and the income is to be used for current expenses of the College of Liberal Arts, or as the Board of Trustees may annually direct.

The Hazzard Professorship. Rev. A. C. Hazzard has given to the University, property valued at \$30,000 for the endowment of a professorship in English Bible.

The Merryman Professorship. Mr. T. D. Merryman has given to the University property valued at \$25,000 for the endowment of a professorship in Mathematics.

Hartupee Gift. This gift consists of \$22,500.

Ladies' Auxiliary.

This organization, formed during 1906-1907 of more than thirty ladies interested in the welfare of the University, has been actively engaged in beautifying the campus of the College of Liberal Arts, in furnishing East Hall as a rest room for the young ladies, in furnishing the trophy room for the young men, and in equipping the cafeteria.

For further information, address,

UNIVERSITY OF SOUTHERN CALIFORNIA,

Los Angeles, California.

THE COLLEGE OF MEDICINE

Announcement of the Twenty-Third Annual Session.

1907—1908.

HISTORICAL STATEMENT.

In 1880 the State of California chartered the University of Southern California, and the College of Liberal Arts began its work of teaching in the following year. In 1885, the Board of Trustees empowered one of its members, Dr. J. P. Widney, to take steps toward the organization of a medical department of the University and upon his call, the first faculty met at his office and formally established "The College of Medicine of the University of Southern California."

The minutes of the first meeting give the following account of the proceedings:

"A preliminary meeting of the Profession was held in the office of Dr. J. P. Widney in the Widney Building on First Street near Spring on March 31, 1885 to consider the advisability of organizing a Medical Department of the University of Southern California.

"Dr. Widney, who had been elected Dean of the Faculty by the Board of Directors of the University, with power to organize the Medical Department, occupied the Chair. On motion of Dr. Lindley, Dr. Percival was elected Secretary of the meeting.

"The opinions expressed were largely in favor of prompt and energetic action in regard to the matter, and one and all without exception, recommended that the institution be placed at once on a footing equal to any, and superior to the majority of medical colleges of the United States. Many expressed themselves as being unwilling to have any hand in the organization of any school, other than the very best."

This thought of a college aiming to do work equal to the very best, which was laid down by the founders of the College, many of whom are still associated with the institution, has been kept constantly in mind. This institution was one of the first in the United States to insist upon a three year course of medicine and from its inception almost, has been a member of the Association of American Medical Colleges, subscribing in all particulars to its requirements, and endeavoring always to raise the standard of medical education and attainment in the Great Southwest.

The first session of the college was held in a brick building still standing at 447 Aliso Street, and there, for many years, the work of instruction was carried on.

In 1895 the College came into possession of its present extensive site extending from Buena Vista to Castelar, between Ord and Alpine Streets, on which lots the buildings named below have been erected. This location is in the oldest portion of the city, founded more than a hundred years ago, and it is in this section of the city that the Mexican and foreign population is crowded, making it an admirable environment to draw from for clinical material.

The Main Building.—In 1895, the Main Building, a three story structure facing Buena Vista Street was erected at a cost of \$20,000 dollars. In this building are the clerk's offices and the faculty rooms, the lecture halls and amphitheaters and the chemical and physiological laboratories and the anatomical dissecting rooms.

The Hendryx Pathological Laboratory.—On January 6th 1899, Dr. W. A. Hendryx, as a memorial to his wife, Lucy Sheppard Hendryx, presented to the College an admirably arranged and equipped two-story building, designed by Professor Stanley P. Black, for the Department of Pathology. This building, which cost \$10,000 dollars, is located some distance from the noise and dust of the street. On the first floor are accommodations for the bacteriological laboratory, a museum room, two research laboratories and office rooms for the professor of pathology. The second floor is entirely given over to the histological and pathological laboratories.

The Dispensary Building.—The dispensary clinic rooms, until 1905 were in the Main Building, but in that year, at a cost of \$20,000 dollars, a new building to the rear and south of the Hendryx Laboratory, was erected. This is a two-story structure designed in accordance with the most modern ideas and is splendidly adapted to the medical and surgical purposes for which it was built. On the first and second floors are large rotundas and waiting halls for the patients, in addition to a drug room, a clinical laboratory, and rooms for the various clinics, all well furnished and equipped.

The Barlow Medical Library.—In 1906, Dr. W. Jarvis Barlow, a member of the faculty, presented to the College and to the medical profession of the Great Southwest, a handsomely equipped fire-proof concrete-brick building costing more than thirty thousand dollars. In this building the College has placed its library of more than five thousand volumes. The library facilities are open to the medical students and profession of the city and of the entire Southwest.

EQUIPMENT AND FACILITIES FOR TEACHING.

Each of the four buildings of the College of Medicine is well equipped for its special ends.

Main Building.—On the first floor of the main building are the Clerk's office, the faculty rooms, the north and west lecture rooms, the amphitheater, and men's coat and locker rooms.

On the second floor are the chemical laboratory, the east lecture room, the laboratory of physiology of the nervous system, the general study room, and the women's rooms.

On the third floor are placed the laboratory of chemical physiology, the research laboratories in physiology, the prosecuting amphitheater, the anatomical museum, and the dissecting rooms.

In the basement are the cold storage and supply rooms.

These various rooms and laboratories are furnished with the most modern equipment and facilities necessary to the production of high grade work.

Hendryx Laboratory.—The bacteriological, histological, and pathological laboratories, located in the Hendryx Laboratory Building are provided with the most modern type of quarters and equipment.

Dispensary Building.—This newly erected building has commodious waiting rooms and possesses admirably arranged and equipped rooms for the clinics in medicine, surgery, eye, ear, nose and throat, gynecology, nervous and skin and genito-urinary diseases. A well equipped drug room and clinical laboratory are attached.

Barlow Medical Library.—This Library possesses the most substantial structure of its kind west of the Mississippi and is devoted solely to medical library purposes. It is absolutely fire-proof and is adapted not only for general study, but for research work.

Didactic, Laboratory and Clinical Facilities for Teaching.—The lecture, laboratory, dispensary and library buildings of the College of Medicine are commodious, well arranged and equipped, and are in charge of experienced teachers whose aim it is to carry on in the most thorough and successful manner the instruction in a curriculum that is in full accordance with the standard of the Association of American Medical Colleges. In the primary studies, most of the professors give almost their entire time to teaching.

The respective value of didactic teaching, laboratory work and clinical demonstrations is fully recognized and an effort has been made to give them, in the curriculum, places and time in proportion to their importance and value.

The didactic teaching is comprehensive and is given by experienced instructors and professors.

The laboratory facilities are all that could be asked and the work laid down, all that a student can thoroughly cover.

The clinical teaching is given at the Dispensary and at the Hospitals. The Free Dispensary of the College handles over 10,000 cases annually and here the students study in sections and under the supervision of competent instructors all the diseases met with in ordinary practice. At the Los Angeles County Hospital, an institution with some 300 beds and

several thousand patients annually, members of the faculty operate and give lectures and section teaching on patients from the surgical and medical wards four times each week. At the Sisters Hospital of Los Angeles, an institution of 200 beds, and at the Emergency Hospital, members of the faculty hold both medical and surgical clinics.

The College Settlement with its visiting nurses maintained by the city, combined with the out-door clinic of the College Dispensary, offers an abundance of out-patient practice, the obstetrical facilities being especially good.

The Children's and Receiving and other semi-public hospitals, as well as the Barlow Sanatorium for Consumptives, the Helping Station of the Southern California Anti-tuberculosis League, and private institutions like the California, the Good Samaritan, the Pacific, the Emergency Hospitals, at which institutions members of the faculty care for many of their patients, offer facilities for clinical observation, excelled by but few cities of like size in the entire United States.

CLIMATIC AND GENERAL ENVIRONMENT OF LOS ANGELES.

There are few cities in the land located in a more desirable environment, than is Los Angeles, the "city of the Lady of the Angels." For an all-year-round climate, that of Los Angeles cannot be excelled and while in many portions of the East, Southern California is known especially as a winter resort, it is the testimony of those who have had opportunities to observe, that the summer climate of Los Angeles is better than that of the East, even more than its world famed winter climate excels the changeable and rigorous weather conditions of the Atlantic Coast and Middle West.

The days in Southern California are bright and pleasant, the nights are cool and the climate always tonic. The rush and bustle of the crowded thoroughfares are the best evidence of the non-enervating character of the climate. In winter one can bathe in the ocean at one of the beach resorts, breakfast and board the electric cars for the foot-

hills and by afternoon be in the snowfields of Mount Lowe. The air is unsurpassed in its purity, for on the one side lies the Pacific and on the other the great deserts, with little or no manufacturing or other impurities to contaminate the atmosphere.

There is no single city in the United States that has been making the phenomenal strides in population and wealth as has Los Angeles, the Queen of the Great Southwest. In 1890, the census showed a population of 50,000 persons. By 1900, the number had increased to 102,000. Today, in 1907, a conservative estimate, based on the directory and school censuses and the data in the city water department, would be 260,000 persons. In addition there is a transient or tourist population of fifty to one hundred thousand persons. There is but little doubt, that Los Angeles in a few years will be a community of half a million people. In fact, it is impossible to forecast the great and magnificent future that lies before this community, which has its being in what is undoubtedly the most favored section of our country.

It is a city of culture and of progress, for the best blood and brains of these United States is pouring into this favored land in a most phenomenal flood. It is a good place to be born in, a better place to grow up and develop in and the best of all places to live one's life in. Medical students, be they delicate or strong can here obtain under the most pleasing environment a medical education equal to the best, and when they graduate, can at once enter into a practical realization of active work, which only a community growing in phenomenal strides of thousands of persons yearly can offer.

It need hardly be added that it is a distinct advantage to the young practitioner who begins practice in this very desirable section, to have previously gotten in touch with the faculty and the profession at large. This personal acquaintanceship and knowledge, not only softens many of the hard spots in active practice, but not infrequently also, leads to pleasant and profitable associations.

The civic and culture spirit of Los Angeles is likewise of

the best, the purity and beauty of the physical environment being reflected in the ideals and standards of its people.

The educational tone of the city is evidenced in the magnificent public school system, in which the High and Polytechnic Schools form fitting cap-stones.

The University of Southern California has partaken of the prosperity of the community and is today an institution with well-equipped and vigorous departments in liberal arts, music, fine arts, engineering, medicine, law, dentistry and pharmacy. Catalogues of the University may be obtained upon application to the President.

The College of Medicine of the University believes that it is justified in calling the attention of Eastern students who are not robust to the peculiarly healthful and delightful climate of Los Angeles.

Many students on the Atlantic seaboard and in the Mississippi Valley find the rigorous winters interfering materially with their ability to study. They also take the risk of having chronic pulmonary troubles fastened upon them. To such it may be of interest to know that the Los Angeles winter is really an ideal summer; and that instead of the snow, sleet and ice experienced in New York, Philadelphia and Chicago, there is here in Los Angeles throughout the year, sunshine, flowers and oranges.

Living in Los Angeles is as cheap as in any other American city of like size, and the only special extra outlay for a student from the East is the car fare. Round trip excursion tickets can be purchased that are good for nine months.

METHODS AND PLAN OF INSTRUCTION.

The Regular Four Year Course.

The College of Medicine of the University of Southern California has been engaged in the work of teaching students medicine for twenty-three years. Aiming to do only thorough work, it adopted from the first a three-year graded course of instruction and was the fourth college in the United States to take this step. In 1896, it adopted a four year course of

collegiate study, each year representing eight months in actual residence.

The studies are so graded that they follow one another logically, at the same time avoiding repetition. In the first two years the fundamental or so-called scientific and laboratory branches are largely considered, while in the last two years the time is spent mostly on the superstructural subjects, that is, on the principles and practice of medicine and surgery, their associated specialties and the application of scientific or laboratory methods to clinical experience.

Instruction is given:

By Lectures, often illustrated, to supplement the text-book study.

By Recitations, for which the student prepares himself by the study of assigned portions of a text-book.

By Conferences, in which instructors and students informally discuss assigned subjects.

By Laboratory Work, in which the students under the supervision of instructors perform for themselves the various experiments with which they should be familiar.

By Demonstrations, in which instructors perform before the class or sections of the class, experiments or dissections too complicated to permit of their being successfully done by students, these demonstrations being usually accompanied by lectures.

By Dispensary Clinics, where sections of a class, under the guidance of an instructor, consider the history and present condition, prognosis, diagnosis and treatment of the patients who present themselves.

By Hospital Clinics, where in medicine and surgery and the associated branches, practical instruction is given at the bed-side and in the amphitheaters.

The whole curriculum is so arranged that the first two years in the primary studies make an admirable foundation for the advanced or clinical branches. The work in each department is so graded as to be a unified whole, one that will

help give to the student at its completion a clear cut conception of the scope and importance of each domain of medicine and surgery and their correlated branches.

Outline of The Regular Four-Year Curriculum.*

The following outline, in which the subjects, the manner in which they are taught and the time per week given to each, are considered, gives a more detailed insight into the nature of the curriculum:

First or Freshman Year.

Materia Medica.—Two hours of lectures and recitations per week. Practical work in dispensary, twelve hours for four weeks.

Anatomy.—Six hours recitations with demonstration on cadaver each week. Dissection of at least one lateral half of body.

Physiology.—Three hours of recitations and four hours of laboratory work per week.

Chemistry.—One hour recitation and four hours of laboratory work per week.

Histology.—One hour recitations and six hours of laboratory per week.

Final Examinations at end of year in Histology, Embryology, Osteology, Syndesmology, Myology, and in Physiology of the Blood, Circulation, Digestion, Respiration, Secretion and Excretion, Animal Heat.

Second or Sophomore Year.

Materia Medica.—Two hours lectures and recitations per week.

Anatomy.—Four hours recitations and demonstration on cadaver per week. Dissections, one lateral half of body.

*The faculty reserves the right to make such changes from the published curriculum and programs as in its judgment may be deemed desirable.

Surgical Anatomy.—Two hours lectures and recitations per week, first half year.

Physiology.—Two hours recitations and two hours laboratory per week.

Chemistry.—One hour lecture or recitation and four hours laboratory per week.

Pathology.—Two hours recitation and lectures per week, and eight hours laboratory work per week.

Physical Diagnosis.—Two hours recitations per week for half year, and two hours practical work in College clinic the last half year.

Hygiene.—One hour lecture per week for half year.

Clinical Medicine.—Two hours recitation per week throughout year.

Final Examinations at end of year in *Materia Medica*, *Anatomy* (descriptive), *Physiology*, *Chemistry*, *Pathology*, *Hygiene*, *Physical Diagnosis*.

Third or Junior Year.

Surgery.—Three hours lectures, one hour recitation, and two hours clinics at County Hospital per week.

Six hours clinics at College Dispensary per week.

Medicine.—Three recitations per week.

Six hours clinics at College Dispensary.

Obstetrics.—Two recitations per week.

Therapeutics.—Two hours lectures and recitations per week.

Paediatrics.—One hour lecture and recitation per week.

Gynecology.—One hour recitation per week.

Toxicology, Urinalysis, and Clinical Chemistry.—One hour lecture and two hours laboratory per week.

Dermatology and Venereal.—One hour clinic per week.

Bacteriology.—Twelve hours laboratory per week, for six weeks.

Surgical Anatomy.—Two hours lectures and recitations per week for one-half year.

Gross Pathology.—One hour per week, for one-half year.

- Physical Diagnosis and Practice.**—One hour per week.
- Ophthalmology.**—One hour recitation per week for one-half year.
- Otology, Laryngology, Etc.**—One hour recitation per week, for one-half year.
- Surgical Pathology.**—Two hours per week.
- Final Examinations** at end of third year in Therapeutics, Paediatrics, Toxicology, etc., Bacteriology, Surgical Anatomy, Gross Pathology and Obstetrics.

Fourth or Senior Year.

- Surgery.**—Two hours lectures, one hour recitation.
Two hours clinics at County Hospital.
Orthopedics, one hour lecture per week.
Two hours clinic each week at the Sisters Hospital.
- Medicine.**—Two hours lectures and one hour recitation.
Three hours clinics and bed-side instructions at County Hospital.
- Obstetrics.**—One hour demonstrations on manikin and on cadaver per week.
- Gynecology.**—One hour clinic at County Hospital.
Two hours clinics at College Dispensary per week.
- Neurology.**—One hour lecture, one hour clinic and bed-side instruction at County Hospital.
One hour clinic at College Dispensary per week.
One hour lecture and recitation on Minute Anatomy per week, for twelve weeks.
- Dermatology, Venereal and Genito-Urinary.**—One hour clinic at County Hospital and one hour clinic at College Dispensary per week.
- Ophthalmology.**—Two hours clinic per week at College Dispensary.
- Otology, Laryngology, Etc.**—Two hours clinic at College Dispensary, per week.
- Electro-Therapeutics.**—One hour per week.

Final Examinations at end of year in Surgery, Medicine, Gynecology, Neurology, Dermatology, Genito-Urinary Ophthalmology, Otology, Laryngology.

REQUIREMENTS FOR ADMISSION.

1. Admission to Freshman Class.

The College of Medicine of the University of Southern California admits men and women on equal terms.

Only such persons will be matriculated as show that they are fitted by previous education to study medicine. For this purpose, they must either present a satisfactory certificate of their attainments from an approved school, college or other institution or educational body, or they must pass an examination. All credentials must be satisfactorily passed upon by the Dean, before the Secretary of the Faculty will matriculate students.

A. Admission Without Examination.

Students are admitted to the Freshman Class without examination:

1. Upon presenting a diploma or certificate of an approved college conferring on them the degree of A. B. or B. S., or an equivalent degree in the arts or sciences.

2. Upon presenting a certificate of admission to the freshman class of an approved college of arts or sciences.

3. Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved as maintaining an adequate standard (the ordinary four year high school course following usually upon eight years of primary and intermediate school work).

4. Upon presenting a teacher's certificate granted upon examination by an approved Board of Education.

5. Upon presenting a medical student's certificate issued by an approved State Board.

6. Upon presenting a certificate of admission to some other medical school approved as maintaining an adequate standard.

B. Admission Upon Examination.

Students are admitted to the Freshman Class upon Examination when they are unable to comply with the foregoing requirements. Such prospective students must take an examination from the deputy examiner or examiners on preliminary studies, appointed by the California State Board of Medical Examiners, whose names will be found on the bulletin board of the College.

This examination is intended to test whether the candidate possesses an equivalent of the ordinary four year high school course. The examination will be on the subjects enumerated below, the candidate being required to have 18 points in the required branches and 12 points in the optional branches.

The Entrance Examination Subjects according to the Association of American Medical Colleges are:

A. Required (18 points): Mathematics (4 points); English (4 points); History (2 points); Language (4 points—2 must be Latin); Science (taken from physics, chemistry, botany, zoology, 4 points).

B. Optional (select to 12 points): English (2 points); History (6 points); Language (6 points); Manual Training (2 point); Mechanical Drawing (1 point); Natural Science (botany, zoology; 2 points); Physical Science (chemistry, physics; 2 points); Trigonometry (1 point); Astronomy (1); Civics (1); Geology (1); Physical Geography (1); Physiology and Hygiene (1); Political Economy (1)—not more than 3 points excepted.

2. Admission To Upper Classes.**A. Admission of Students from Approved Regular Medical Schools.**

Students of other recognized and approved regular medical schools may be admitted to the College as follows:

Those qualified to enter any year and class of their own school, may be admitted to the corresponding year and class of this College, provided, however, (1.) that the preliminary requirements of the said school are equivalent to those of this College; (2.) that the studies pursued by the applicants

in their previous year or years are reasonably equivalent of those in this College; (3.) and that the requirements for advancement from class to class are the equivalent of those in this College. Where studies have not been taken, the student may be required to pursue these subjects in this College, and when deemed desirable, an examination in the subjects in the prior courses at this College, which were pursued elsewhere, may be required.

B. Admission of Students from other Professional Schools.

Time credits may be given to students who have the necessary entrance requirements, and who are graduates or students of colleges of Homeopathic or Eclectic Medicine, for such courses of instruction of the required duration as they have successfully fulfilled, excepting in the course of the fourth year, provided that they also pass satisfactory examinations in materia medica and therapeutics.

No advanced standing or time credits can be given for degrees in Dentistry, Veterinary Medicine, Pharmacy or Osteopathy.

C. Admission of Graduates of Institutions of Arts and Sciences.

Students holding degrees in Arts, Sciences or Philosophy, granted by institutions of approved standing (a four year college course following upon the usual four year high school course) who in the course of study for their degrees have pursued studies in physics, chemistry, anatomy, histology, physiology, bacteriology, embryology or pathology, equivalent to the courses in all these subjects may, upon satisfactory evidence of their proficiency, be credited with one year's time credits. If all the above subjects have not been taken, then only subject credits in individual studies may be given, the student being required to take a four year course.

REQUIREMENTS FOR ADVANCEMENT FROM CLASS TO CLASS.

Students are divided into four classes, according to their proficiency and time spent in studies, viz: First Year or Freshman, Second Year or Sophomore, Third Year or Junior, Fourth year or Senior.

Students are advanced from one class to the next upon making satisfactory final standing. The final standing in any subject is based on the record of the student as regards recitations, clinical or laboratory work, oral and written examinations and on attendance.

Attendance upon at least 80 per cent. of all exercises is obligatory.

Students who fail to receive a passing mark of 75 per cent. in any subjects are marked conditioned in such studies, and will be so notified. If a student be conditioned in two or more subjects or courses, his markings will be referred to the Educational Committee of the Faculty, which committee will determine whether such student shall have the privilege of taking a re-examination or whether part or all of the conditioned subjects shall be repeated with the next year's class.

If a student fails in a re-examination, the Educational Committee will determine whether a second re-examination shall be given or whether the work is to be repeated in class.

Re-examinations for conditioned students will be held during the first two weeks of the fall term and will be duly bulletined.

Students who carry conditions into a succeeding year may find a resultant conflict of study hours. In that event they will give preference to the unfinished studies of the lower conflicting course. Conditions in laboratory courses, which would conflict with clinical studies in the Junior year, must be worked off before that class can be entered.

All students who enter the Senior Year Class should be clear of conditions.

REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Medicine from this College must have fulfilled the following conditions:

1. He must have attained the age of twenty-one years.
2. He must be of good moral character and must have maintained an irreproachable moral standing while in attendance at this College.
3. He must have been engaged in the study of medicine for a period of at least four years, and must have attended four full courses in separate calendar years, the last of which must have been in this college.
4. He must have passed the required examinations in all the studies of the curriculum.
5. He must have dissected at least a median half of the human body.
6. He must have been present at no less than two cases of obstetrics.
7. He must be present at Commencement unless excused by the Dean.
8. He must have paid in full all college fees.
9. He must have received the vote of the faculty as a person qualified to become a Doctor of Medicine.

COMBINED SIX YEAR COURSE FOR THE DEGREES OF BACHELOR OF ARTS AND OF DOCTOR OF MEDICINE.

Requirements: A credit of thirty to sixty semester hours, that is, one to two years of study, will be granted on the course leading to the degree of Bachelor of Arts (A. B.) in the College of Liberal Arts, on completion of the medical course of the University, to such students in the College of Medicine as have pursued in the College of Liberal Arts of this University or some other approved institution, studies in art and science, equivalent to those offered in the freshman and sophomore curricula of the College of Liberal Arts; provided, that all candidates for these combined degrees, even though they may have elsewhere pursued two years

or more of work in an approved institution must have completed in addition to the above, a minimum of at least eighteen semester hours work in the College of Liberal Arts of this University.*

Such a student must meet the conditions as to required studies for admission to the College of Liberal Arts. He will be granted credits on studies in arts and science pursued in other approved institutions only in so far as they are the full equivalent of studies offered in the first two years of the curriculum of the College of Liberal Arts of this University.

He must matriculate at the College of Liberal Arts for at least two years.

The number of hours credit (30 to 60 semester hours) granted on the work covered in the College of Medicine will be determined by the character of the work done by the student in that department.

The degree of A. B. will not be conferred until the close of the college year in which the medical degree is granted.

The regulations for the current year shall prevail concerning fees; that is, the candidate for the combined degrees, in addition to his tuition in the College of Medicine, will pay to the College of Liberal Arts, the regular fees for the hours of work actually done in that department, as enumerated in the table of fees in this catalogue.

Studies Included in the Preliminary Course to Medicine: The two year course in the College of Liberal Arts which is recommended as furnishing an excellent preliminary training to the four year medical course leading to the combined degrees is as follows:

First Year.

General Zoology.....	4	hours per week throughout the year.
Chemistry or Physics	3	hours per week throughout the year.
Freehand Drawing...	1½	hours per week throughout the year.
English.....	3	hours per week throughout the year.
German.....	4	hours per week throughout the year.

*Information concerning the exact amount of study involved in seventeen semester hours (units) is given under the Master of Arts Degree Course, which follows.

Second Year.

Systematic Zoology.	1½ hours per week throughout the year.
Bionomics	2 hours per week throughout the year.
French or Scientific German .....	.....
.....	2 hours per week throughout the year.
English Literature...	2 hours per week throughout the year.
Psychology	3 hours per week throughout the year.
Organic Chemistry...	2 hours per week throughout the year.
Anatomy of Vertebrates	2 hours per week throughout the year.

Optional or substitute studies are courses in Greek, Latin, Spanish, Economics, Physical Culture, General Botany and Constitutional History. Detailed outlines of these and other courses are given in the catalogue of the College of Liberal Arts of the University, which will be sent on application.

COMBINED COURSES FOR THE DEGREES OF MASTER OF ARTS AND OF DOCTOR OF MEDICINE.

Upon students who complete the course in the College of Medicine of the University after receiving the Bachelor's degree from the College of Liberal Arts or from other institutions approved by the College of Liberal Arts, the degree of Master of Arts will be conferred under the following conditions:

A candidate, that is, a student holding an A. B. or equivalent degree, for the degree of Master of Arts who is at the same time pursuing the regular course in the College of Medicine must matriculate in the College of Liberal Arts at least two years before receiving the Master's degree. The degree of Master of Arts may then be granted at the same time the candidate receives the degree of Doctor of Medicine.

The candidate's research work must be planned in conjunction with the Committee on Graduate Study in the College of Liberal Arts.

Reports of progress in the research work shall be made at such times as may seem advisable to the Committee. The results of such work must be embodied in a thesis approved by the Committee on Graduate Study.

The requirements for obtaining the degree of Master of Arts from the University are as follows:

The degree of Master of Arts (A. M.) is conferred upon graduates of the College of Liberal Arts of the University and upon others who have had equivalent training elsewhere, on completion of an approved course of graduate study equivalent to thirty semester hours. (A semester is half the college year, and a semester hour means one exercise a week throughout a semester. It is intended that each hour of credit shall represent, for the average student, one hour of recitation or lecture plus two hours of preparation or subsequent reading per week, or an equivalent three hours work in laboratory courses per week. Fifteen hours per week in recitations or lectures, or their equivalent in laboratory work, constitute an average semester's work.)

Candidates who pursue this advanced study in residence at the University may receive the degree as early as one year after graduation. Those who do not pursue the study in residence may receive the degree not earlier than two years after graduation.

At least sixteen semester hours of the work for the Master's degree must be chosen from one department, in which the candidate has previously completed the undergraduate major work, or an equivalent. This advanced work will be the major subject. Six semester hours must be taken in some department other than the major. This will be the minor subject. The remainder of the work (eight semester hours) may be chosen from any departments approved by the Faculty.

The Master's degree may designate the special course pursued—e. g., Master of Arts in Science.

Candidates in residence must register not later than the first Tuesday in October next preceding the date of the final examination. Non-resident candidates must register one year earlier.

A thesis embodying the results of investigation on an approved subject in the major department must be submitted

and be approved by the major professor before the candidate may be recommended for a degree.

The subject for the thesis must be submitted to the Faculty for approval through the major professor not later than January 10th, and the completed thesis not later than the last Saturday in May, of the year in which the degree is desired. The thesis must be typewritten on paper 8x10 inches in size, and copies of the same deposited in the libraries of the College of Liberal Arts and of the College of Medicine of the University.

The regulations of the College of Liberal Arts for the current year shall prevail concerning fees and thesis.

SPECIAL AND POST-GRADUATE COURSES.

Courses in special or regular studies of the curriculum can be arranged with the Dean and Secretary.

Graduates in medicine who desire to prepare themselves for state board examinations as well as to make a theoretical and clinical review will find that this College offers exceptional advantages for such work. Details of such special post-graduate courses are to be arranged with the Dean and Secretary.

Special Quiz Course. Because a systematic review under competent instructors and supervision, is not only a great aid in examination for hospital internships and before State Examining Boards, but because such a review, approaching as it does the primary or scientific branches in the light of the later and applied clinical studies, enables the student who so reviews to come into a broader and more practical conception of the relation of all parts of the curriculum, the faculty of the College have authorized the formation of a Senior Quiz Class open to all seniors, and by permission of the Dean, to special and graduate students.

This class will meet after January first, at such times as are mutually satisfactory. Attendance is not compulsory, the time so spent being a voluntary addition to the curriculum.

This course in connection with a review of selected laboratory branches, lectures and clinics, forms a most admirable review for practitioners who desire to pursue a year of post-graduate work, and especially for those practitioners who contemplate taking the examination of the California State Board of Medical Examiners.

To graduates of this College who will satisfactorily pursue under the supervision of a faculty committee, a special course of reading in the Barlow Medical Library on assigned work and who will likewise give special attention to clinical practice in out-patient or hospital work as well as pursue a proper amount of laboratory work, a special certificate stating the character of the work covered, will be granted.

FEES FOR COURSES IN THE COLLEGE OF MEDICINE.*

Matriculation Fee.

A matriculation fee of five dollars is charged all students, both regular and special. This fee is invariably payable in advance and no classes can be entered until it is paid. It is payable but once.

Tuition Fees for the Regular Course.

First or Freshman Year.

Full Course, including all laboratories, dissections,
library fees, etc.....\$115.00

Second or Sophomore Year.

Full Course, including all laboratories, dissections,
etc.\$115.00

Third or Junior Year.

Full Course, including all laboratories, clinics, etc. ...\$115.00

Fourth or Senior Year.

Full Course, including all clinics, graduation fees, etc. \$115.00

*The fee table in vogue at the time of a student's first full course of lectures, will be carried out for such student unless it works a manifest injustice.

The annual fee is due and payable before November 1st. To secure the tuition at the above rate, the entire amount, \$115 must be paid before that time. If the whole fee of \$115 is not paid before November 1st, the annual fee paid on or after that date will be \$125 for that year. Of this \$125, at least \$65 must be paid before November 1st, and the \$60 additional before February 1st. If for any reason, a student be unable to pay his tuition or other fees on the scheduled time, then such student must give a note for the amount signed by two satisfactory sureties. The entire indebtedness of any student must be paid before any examinations can be taken.

Deposit Fee

An annual deposit fee of ten dollars is required of all students as a precaution against breakage or injury to apparatus in the laboratory, unnecessary damage to the buildings or loss of instruments in laboratories and clinics. This fee must be paid on or before the second Monday in October of each year, and is refunded in case no injury or loss occurs.

For apparatus and material attached to this laboratory desk, the student will be held responsible and will give a receipt to the professor or instructor. At the end of each course, if such apparatus and material are restored in good condition, the receipt will be returned to him.

If laboratory or other material be not restored in full or complete order, the professor or instructor will write on the receipt the amount to be deducted.

Refunders may be presented to the Secretary of the Faculty through the Clerk.

Deductions to cover the loss will be made from the deposits of individual students, when it can be determined who caused the breakage or loss of apparatus or defacement of buildings. When it cannot be so determined, the value of the loss or injury will be deducted *pro rata* from the deposits of all students.

Fees for a Full Post-Graduate Year.

Graduates of Medicine from other colleges who wish to take the work of an entire year or its equivalent will pay

\$115 on the same terms as those applying to the regular course.

Fees for Special Courses.

Special students will pay from ten to twenty-five dollars per year for each study they elect to pursue. When special laboratory work is carried on, extra fees may be charged.

Fees for Graduates of this College.

Graduates of this college will pay an admission fee of five dollars, which will entitle them to attend any lectures they may desire to take, in the regular course. For laboratory courses, fees will be charged according to the character of the work.

Fees to Medical Missionary Students.

Students who desire to become medical missionaries will be entitled to a refunder of one-half their tuition, if five years after graduation, they file a statement from the missionary board of their respective church, stating that they have been in actual service as medical missionaries for that period.

No Fees for Visiting Physicians.

Practitioners who are visiting the city are always welcome to attend clinics and lectures and by applying to the Dean, Secretary of the Faculty or to the Clerk of the College, can obtain tickets granting them this privilege for one week.

Locker Fees.

A fee of one dollar a year will be charged for lockers, of which sum, twenty-five cents will be returned when the key is returned to the Clerk at the close of the year.

Fees for Re-examinations.

Conditioned students who failed in their first re-examination, are required to pay a fee of five dollars payable to the Clerk, for subsequent examinations in each subject.

Conditioned students who fail to take the re-examinations at the beginning of the fall term, after due notice of such examination has been bulletined, are required to pay to the Clerk, a fee of five dollars for subsequent examinations in each subject.

Fees Not Transferable.

Fees are not transferable.

Fees Refundable.

No refund of tuition fees is allowed except in cases of serious illness and then only in such amount as the Dean and Secretary may deem equitable, three fourths of the amount covered by the actual absence, being the sum usually allowed.

FEES IN COLLEGE OF LIBERAL ARTS, FOR COMBINED COURSE LEADING TO DEGREES OF A. B. AND M. D.

Undergraduate Courses in Arts and Sciences.

Tuition, per semester, payable in advance.....	\$35.00
Tuition for six to ten hours.....	25.00
Tuition for fewer than six hours.....	17.00
(Gymnasium fee, and instruction in physical education included in the above)	
Gymnasium fee, and instruction in physical education taken without other studies.....	6.00
Registration fee, included in the above but not subject to rebate.....	5.00
Diploma fee	5.00
Laboratory fees per semester:	
General Chemistry	7.00
Analytical Chemistry	7.00
Quantitative Chemistry	7.00
Assaying	30.00 to 50.00
Advanced Physics.....	4.00 to 10.00
General Zoology	4.00
General Botany	4.00
Advanced Physiology	3.00
Bacteriology	4.00

An account is kept of breakage and an additional charge made therefor.

An additional deposit of \$5.00 to cover Breakage, is required in chemistry. This deposit, less cost of breakage, is refunded at the end of the semester.

A discount of ten per cent. will be allowed on the second semester, when the tuition fees for the whole year are paid in advance; also a discount of ten per cent. when two or more students enter from the same family.

No rebate will be allowed for absence of less than half a semester.

FEES IN COLLEGE OF LIBERAL ARTS FOR COMBINED COURSE LEADING TO THE DEGREES OF A. M. AND M. D.

Graduate Study in Arts and Sciences.

Tuition, per semester, payable in advance	\$35.00
Registration fee (including in the above)	10.00
Diploma fee	10.00

Students who have received the Bachelor's degree from the University of Southern California will pay only registration and diploma fees.

Post-graduate students who are not in residence or actual attendance will pay fifty dollars tuition for the course.

Laboratory fees are on the basis laid down for undergraduate courses.

GENERAL INFORMATION.

Prizes.—Through the generosity of Dr. W. Jarvis Barlow, Professor of Clinical Medicine in the College, there have been offered two prizes:

The College Senior Prize, a prize of one hundred dollars, to the Senior who makes the best standing in the work of that year, and

The College Sophomore Prize, a prize of fifty dollars, to the Sophomore who makes the best standing for that year.

In addition to these prizes, members of the faculty not infrequently offer special prizes for the best work done in

laboratories, or best standing or reports of clinical or class room work.

Interneships.—The great advantage of practical hospital experience following graduation, is fully recognized by this College and exceptional opportunities in this connection, are within the grasp of all properly qualified graduates of the institution. Among such may be mentioned:

The Los Angeles County and City Hospital, an institution of several hundred beds, and with a large out-patient service in addition, where exceptional opportunities exist for the house physicians to acquire an intimate knowledge of disease and injury in all its phases. To this institution, the College of Medicine, U. S. C., annually sends four members of its graduating class.

The Sisters' Hospital, a magnificent institution for both charity and private work, with a capacity of two hundred beds and also a large out-patient service, which for the past several years has been annually served by several internes who were graduates of this College.

The California Hospital, a unique institution of several hundred beds, which bears the distinction of being the largest hospital in the United States exclusively owned and controlled by physicians. From its inception this institution has had prominently identified with it, present or former members of the faculty of this College and its three positions as internes are open exclusively to members of this College.

Other institutions to which the students are eligible, are the Children's, mining and corporation, as well as numerous railroad hospitals.

Opportunity is likewise frequently given to graduates to become assistants to prominent practitioners in their private work and practice. For years the faculty of this College has been able to find positions in hospital or corporation work for all properly qualified graduates who desired hospital experience, and not infrequently has had more positions at its disposal than could be filled.

Graduate Assistantships in Clinics.—Opportunity is given graduates of the College, residing in or near Los Angeles, who desire to follow the work of special clinics, to secure this experience and work without charge, by being enrolled as Voluntary Clinical Assistants. As the Dispensary and Out-patient work is large and constantly growing, this work may be made to be of great value.

Student Assistantships.—In several of the Departments, especially of the first two years, there are opportunities for students who are especially interested in the work of such Departments, to secure the position of student assistant, with special facilities for doing research work as well as securing in addition, in several instances, a monetary stipend.

Young Men's Christian Association.—The Young Men's Christian Association of Los Angeles, shows special courtesies to students, and the Clerk of the College will give letters of introduction to such students as desire to avail themselves of its privileges. The same holds true of the Young Women's Christian Association.

Class Organizations and Students' Executive Committee.—The various classes each year effect class organizations, the four class presidents' constituting the Students' Executive Committee, the function of which committee is to represent the interests of the student body to the faculty when occasions so demand, and to act in a general executive capacity for the students. The executive committee for the session of 1907-08 consisted of Messrs. P. B. Riggins, '07; A. C. Macleish, '08; H. A. Rosenkranz, '09, and F. W. Parrish, '10.

Senior-Junior Clinical Club.—This is an organization of senior and junior students which meets once a month to read and discuss papers and to present and discuss patients or specimens.

Sophomore-Freshmen Science Club.—This club is modeled on similar lines to the above, the discussion of topics being confined largely to the fundamental or scientific branches of the first two years of the college course.

Both organizations aim to teach their members the art of presenting their opinions with facility and ease, as well as to

teach them, in the preparation of their papers and programs, to use to best advantage the exceptional opportunities offered by the Barlow Medical Library.

Fraternities.—The Nu Sigma Nu and Phi Rho Sigma (men's), and Alpha Epsilon Iota (women's) national medical fraternities maintain flourishing chapters in the College.

Los Angeles County Medical Association.—The medical profession of Los Angeles county is better organized than in any other portion of the State of California and the scientific, social and material interests of the profession are correspondingly conserved.

In additions to branches in outlying towns and sections in the specialties such as eye, ear, nose and throat, and obstetrics, the Los Angeles City Branch meets weekly, one meeting every month being exclusively given over to clinical presentations. The students of this College are invited and urged to attend and take part in the excellent weekly scientific programs which are being constantly presented. The weekly programs may always be found on the bulletin board.

Annual Reception.—The Faculty, the Alumni, the University and the Students, at different times during the year all hold annual receptions to the end of welcoming new students and allowing faculty and alumni to meet in re-union. These receptions are occasions of very considerable pleasure to the large number of persons who participate therein.

Alumni Association of the College of Medicine of the University of Southern California.—For more than twenty years the College of Medicine, U. S. C., has been engaged in the work of teaching the art of medicine and during that period, more than two hundred graduates have left its halls to take up their life work as physicians, the majority of them in this wonderful section of the Great Southwest. The high professional standing to which the graduates have attained and the common bond of sympathy between all connected with the College, has been a source of much extra professional courtesy as well as the means of considerable material advancement to many of the younger graduates.

While in no sense a close corporation, the alumni and the faculty feel that graduation from this College should stand to those who subsequently practice in Southern California and the Southwest, as a synonym and source of special professional courtesies and profit.

In addition to the Annual Alumnaal reception at the College there is an alumnaal banquet during commencement week, at which time the graduating class is welcomed into membership.

The Alumni Association of the College of Medicine of the University of Southern California was founded several years ago, by the alumni living in and near Los Angeles. Quarterly meetings, of a social character, are held on call by the executive officers. Those desiring to become members are requested to send their names to the Secretary. The dues are nominal.

The officers of the Alumni Association for the current year are: President, John C. Ferbert; vice-president, Dr. C. Lee Hagadorn; secretary, Dr. Titian C. Coffey; treasurer, Dr. E. L. Leonard; executive committee, Dr. H. Bert Ellis, Dr. W. W. Beckett and the above.

Athletics.—In addition to the local facilities for athletic diversion, students of the College also find opportunities for physical development in both the Y. M. C. A. and the University Gymnasia, and students of the College are eligible to places on the foot-ball, base-ball and track teams of the University.

Discipline and Good Order.—All students are expected to observe the principles of good conduct and order while attending the College, and plain infractions of the rules will be referred to the Executive Committee of the Faculty, with recommendation of reprimand, suspension or expulsion.

Suggestions To Prospective Students.—It would be to the advantage of students if they would matriculate a few days in advance of the opening exercises, secure boarding places, and purchase books, so that their studies may not be interrupted in the beginning.

Board and Lodging.—Good board and lodging vary in price from three and a half to six dollars per week. Rooms for those who wish to board and lodge themselves, will cost from six to ten dollars a month. By forming boarding clubs, students may reduce the cost of board to two dollars a week.

A list of desirable rooms and boarding places recommended by the boarding house committees of the Young Men's and Young Women's Christian Associations may be obtained at the offices of those organizations or at the office of the Clerk of the College.

How To Reach the College.—Students who desire to go directly to the College, should transfer to Garvanza or Griffin Ave. cars, going north on Spring street. These cars stop in front of the College buildings. The office of the Clerk of the College is on the first floor of the main building. The janitor's residence is in the rear of the Dispensary building facing on Castelar street.

The Clerk of the College, Mr. G. A. Lewis, is in his office in the Main Building from 9 A.M., to 5 P.M. and will be glad to answer questions and extend courtesies to visiting physicians and prospective students.

Matriculation.—All new students must present their credentials to the Dean and must then matriculate with the Secretary of the Faculty.

Communications relative to qualifications and matriculation should be addressed to the Dean.

For additional information, apply in person to, or address,

Dr. Wm. D. Babcock, Dean,

917 Union Trust Bldg., Fourth and Spring Streets,
Los Angeles, Cal.

or

Dr. George H. Kress, Secretary,

602 Johnson Bldg., Fourth and Broadway,
Los Angeles, Cal.

CALENDAR*

1907-1908.

Twenty-Third Annual Session.

1907—

October 1-2—Entrance Examinations are conducted.

October 3, Thursday—Regular term begins at 7 P.M. General Assembly in the Amphitheatre of the Main Building.

November 27, Wednesday—Annual Faculty Reception and Reunion.

November 28, Thursday—Thanksgiving Day.

December 20, Friday evening—Christmas vacation begins.
1908—

January 2, Thursday—Lectures resumed.

January 19, Monday	}	Mid Year Examinations.
February 1, Saturday		

May 13, Monday—Examinations for the degree of Medicine begin and continue until June 1.

May 30, Saturday—Labor Day.

June 1, Monday—Undergraduate Examinations begin.

June 10, Wednesday—Alumni Reunion.

June 11, Thursday, 8 p.m.—Commencement Exercises.

*On all legal holidays of the State of California the schedule is suspended.

COURSES OF INSTRUCTION

DEPARTMENT OF ANATOMY.

Claire W. Murphy, M. D.	Professor of Descriptive and Surgical Anatomy
W. W. Richardson, M. D.	Professor of Descriptive Anatomy
E. H. Wiley, M. D.	Instructor in Descriptive Anatomy
W. R. Molony, M. D.	Demonstrator in Anatomy

Equipment.

The dissecting rooms, prosecting amphitheatre and bone museum are on the third floor of the main building. The dissecting room is large, well lighted and ventilated, with white wood-pulp cement floor. It is connected by an elevator with the preparation and cold storage rooms in the basement. An ample supply of well preserved material is always on hand.

From the bone museum, the student is allowed to borrow bones for study in his room.

Instruction is by lectures, recitations, demonstrations and dissections, the student in the last named courses, being required to dissect the entire cadaver. The body is divided into five parts:—upper extremity, lower extremity, chest, abdomen, head and neck. These parts are taken up in succession and the osteology, syndesmology, myology, angiology and neurology of each region considered in turn. Dissection work is arranged to go hand in hand with these recitations.

Text-Books.

For Study: Cunningham, Treves' Applied Anatomy, Holden's Dissector.

For Collateral Reading: Morris, Gerrish.

Courses.

Course I. General Anatomy Dr. E. H. Wiley
Freshman Year. Five hours weekly throughout the year.

A recitation and demonstration course, constituting 165 hours in all. The upper and lower extremities and the chest and abdomen are studied during this year.

Course II. General Anatomy Professor W. W. Richardson
Sophomore Year. Five hours weekly throughout the year.

A course in recitation and demonstration work, making a total of 130 hours during the college year. The head and neck are first taken up, followed by the organs of special sense, and the remainder of the year is devoted to a review of the work gone over during the Freshman year.

Course III. Dissections Dr. W. R. Molony
Freshman Year. Two hours daily.

The work in the dissecting room is arranged as far as possible to coincide with the recitation work.

During the freshman year, each student is required to complete a dissection of the upper and lower extremity, the chest and the abdomen, and credit is given for these dissections only after a rigid examination upon the work done.

During the dissection of his part, each student is required to be in the laboratory between four and six P. M. on six days of the week.

Course IV. Dissections Dr. W. R. Molony
Sophomore Year. Two hours daily.

During the sophomore year dissection of the head and neck is required, under the same conditions.

Further dissections are encouraged, and credit is given for work done in excess of the required amount.

Course V. Dissection of the Dog Dr. Jones
Freshman Year. Two hours a week for six weeks.

This is a preliminary course intended to familiarize the student with the methods of dissection as well as the gross anatomy of the mammalia.

Course VI. Minute Anatomy of the Nervous System . . .
. Professor Murphy

Senior Year One hour a week throughout the year.
Lectures and demonstrations with specimens, macroscopic and microscopic, and illustrations with charts giving the minute anatomy of the nervous system.

- Course VII. Surgical Anatomy** . . . Professor Murphy
Junior Year. Two hours per week for thirty weeks.
The surgical relations of the various structures of the body, the landmarks and surface tracings on the living and dead bodies will be considered.
- Course X. Special Courses.** Prof. Richardson and Assistants.
Hours to be arranged.
Opportunities for special investigations in human and comparative anatomy are given to qualified students.

DEPARTMENT OF CHEMISTRY.

- Laird J. Stabler, M. S., Ph. G.** . . . Professor of Chemistry
Lee Cowan Assistant in Chemistry

Equipment.

The chemical laboratories and lecture room are located on the second floor of the main building. The general laboratory is fitted with tables arranged with cupboards, drawers and locks and supplied with gas and water. Adjacent to the general laboratory is the store room. Each student is supplied with desk room and ample apparatus for systematic and accurate experimental work. The lecture room is furnished with abundant apparatus for demonstration.

Text-Books.

For Study: Remsen's College Chemistry; Perkin and Kripping Organic Chemistry.

For Collateral Reading: Chemistry, Jones; General Inorganic Chemistry, Smith.

Courses.

- Course I. General Chemistry** . . . Professor Stabler
Freshman Year. Three hours per week for one-half year.

A course of lectures and demonstrations designed to be an introductory course in general chemistry, including a consideration of the principles governing chemical action and a description of the properties of the various elements and their compounds, as well

as a drill in the meaning and use of symbols in chemistry, formulae and equations. Special emphasis is placed upon physical chemistry which is so essential to the clear understanding of modern chemistry.

Course II. Laboratory Work in General Chemistry . . .
 Professor Stabler
Freshman Year. Four hours per year for one-half year.

During this course, a detailed study of the chemical and physical properties of the non-metals and their more important compounds is made and practical instructions in qualitative and volumetric analysis is given.

Course III. Organic Chemistry . . . Professor Stabler
Freshman Year. Three hours per week for one-half year.

Lectures and recitations on the compounds of carbon, especially those met with in the metabolism of the body cells.

Course IV. Laboratory Work in Organic Chemistry . . .
 Professor Stabler
Freshman Year. Four hours per week, one-half year.
The laboratory work will consist of the preparation of typical organic preparations illustrating the general reactions involved in organic chemistry.

Courses V. Physical and Qualitative Chemistry Prof. Stabler
Sophomore Year. Three hours per week, one-half year.

The course consists of lectures and laboratory work emphasizing the general principles of physical chemistry, involving electrolytic, dissociation, equilibrium, mass action, etc., as a foundation for qualitative chemistry. The student is drilled in the laboratory in applying the general principles of this course by making the analysis of sample substances for bases and acid.

Course VI. Toxicology. . . . Prof. Stabler and Dr. Jones
Sophomore Year. Three hours second half of the year.
A laboratory course in identification of poisons,
strong drugs and food and drug adulteration.

DEPARTMENT OF NORMAL HISTOLOGY.

Stanley P. Black, Ph.B., M. D.
Professor of Histology and Pathology
C. McQuiston, M.D. Assistant in Histology

Equipment.

This department shares with the Department of Pathology the upper floor of the Hendryx Laboratory building and each student is supplied with all the necessary apparatus and reagents.

Text-Books.

For Study: Stohr.

Courses.

Course I. General Histology. Prof. Black and Dr. McQuiston
Freshman Year. Six hours laboratory work and one
hour recitation per week, for thirty-two weeks.

Instruction is given by lectures, illustrated by black-board drawings, by recitations and by laboratory work.

After a preliminary course on the general use of the microscope, the elementary tissues are studied by fresh and unstained specimens and by stained preparations. Then the histology of the various organs is systematically taken up, the student preparing, staining and mounting the specimens as far as practicable and then making drawings of each with explanatory notes. The course is closely affiliated with the work done in anatomy and physiology and is intended to serve also as a basis of future work in pathology.

Facilities are offered and assistance given to students who desire to make original investigations.

DEPARTMENT OF PHYSIOLOGY.

Lyman Brumbaugh Stookey, A.M., Ph. D.	Professor of Physiology
George H. Kress, B. S., M. D.,	Lecturer on Physiology of the Nervous System
A. Halden Jones, A. B.	Assistant in Physiology
J. L. Choate, A.B.,	Assistant in Physiology
Vera Gardner	Assistant in Physiology

Equipment.

The department of Physiology occupies half of the third floor and part of the second floor of the main building. On the third floor are the experimental laboratory of chemical physiology, the research laboratory, and the office of the head of the department. On the second floor is the laboratory for physiology of the nervous system. An amphitheatre adapted to the presentation of major demonstrations adjoins the physiological laboratory.

Animal rooms and aquaria supply the department with ample material. The physiological laboratories are equipped with all the apparatus and instruments needed for didactic and experimental purposes. Through the generosity of Mrs. Jane Mansil of Hartford, Connecticut, and Dr. Millbank Johnson of Los Angeles, the original equipment has been enlarged greatly.

Instruction in this department is given by lectures, demonstrations and laboratory exercises. The laboratory exercises consist chiefly of classical experiments illustrative of each chapter of physiology, and enable the student to demonstrate for himself some primary facts of the science, and to acquire direct acquaintance with experimental physiological methods.

The chief ends sought after in the laboratory exercises are precision in conducting experiments, accuracy in observation and logic in deduction. Wherever possible preference is given to observations used in clinical medicine.

Formal written examinations in each course of this department are held at frequent intervals. These tests are invaluable in the cultivation of a clear and concise command of expression.

The assistantships in this department are honor positions, and are awarded according to scholarship and fitness.

A laboratory fee is charge for courses 3, 4 and 5. In addition the student bears the cost of breakage.

Text-Books.

For Study: Howell's Text-book of Physiology, Tigerstedt's Text-book of Physiology, Stewart's Manual of Physiology, Hammarsten's Text-book of Physiological Chemistry, Krehl's Pathological Physiology and Special Syllabi.

Courses.

Course I. General Physiology
 Professor Stookey and Miss Gardner
 Freshman Year. Four hours lectures and three hours lectures weekly throughout the year.

The first six weeks are given to a biological and physiological consideration of the cell as the elementary organism, emphasis being laid upon the cell as the seat of vital processes. Subsequent to a study of the cell, the following subjects are treated: circulation, blood, lymph, respiration, body temperature, reproduction, muscle and nerve.

Course II. Chemical Physiology
 Professor Stookey and Mr. Jones
 Sophomore Year. Two hours lectures and four hours laboratory weekly throughout the year.

The chemical constituents of almost every tissue and fluid of the body are isolated and studied. Special attention is given to the formation and nature of secretions, the action of enzymes, digestion and carbohydrates, fats and protein substances, their absorption, fate in the organism and excretion.

Course III. Physiology of the Nervous System and the Senses
 Dr. Kress and Mr. Choate
 Sophomore Year. One hour lecture and one hour laboratory weekly from Jan. 1 to end of the year.

During the Fall term the class has been trained in the anatomy of the brain. After the Christmas recess the physiology of the nervous system is studied. Emphasis is laid upon reflex action, reaction time, localization of functions in the cerebrum and vision. The subsequent study of practical medicine is kept in mind in the presentation of this course.

Course IV. Pathological Chemistry
 Professor Stookey and Mr. Jones

Elective—Juniors and Seniors. Two hours lectures and four hours laboratory weekly from October 1 to Christmas.

The following subjects are discussed: Inorganic salts in disease, digestion, metabolism and carbohydrates, fats and proteids in disease, putrefactive processes, starvation, overfeeding and obesity, significance of intracellular enzymes in disease, degenerations, fever, uraemia, jaundice and the chemical defenses of the organism against disease. Examinations are made of stomach contents, faeces, urine, blood, exudates, concretions, cerebrospinal fluid and other available material. Each student is required to carry out a complete metabolism experiment. A student may attend the lectures of this course without taking the laboratory work.

Course V. Original Investigation Professor Stookey.
 Elective. Hours to be arranged.

The laboratory has been equipped especially for the investigation of physiological problems. Those qualified are encouraged to undertake research work. A reading knowledge of German and French is desirable.

DEPARTMENT OF BACTERIOLOGY.

E. L. Leonard, B.S., M.D. Professor of Bacteriology
Equipment.

The Bacteriological Laboratory occupies the first floor of the Hendryx Laboratory and is equipped with Leitz oil immer-

sion microscopes, sterilizers, incubators and all modern bacteriological apparatus for the isolation and technical study of bacteria.

This subject is taught by lectures, recitations and laboratory exercises. The opening lectures deal with the early history and development of the science. These are followed by a discussion of the principal theories of immunity including the application of Ehrlich's theory to the study of the various infectious diseases. The pathogenic bacteria are studied in detail in their relation to disease-processes. This is followed by inoculation experiments and the technique is discussed thoroughly.

Text-Books.

For Study: Park on Pathogenic Bacteria and Protozoa, Ricketts on Infection, Immunity and Serum Therapy.

For Collateral Reading: Sternberg's Manual of Bacteriology, Chester's Manual of Descriptive Bacteriology, Swinbank & Newman's The Bacteriology of Milk, Muir and Ritchie's (Harris Edition) Manual of Bacteriology, Frankland's Micro-organisms in Water, Journal of Infectious Diseases, Journal of Medical Research, Journal of Hygiene, Proceedings of American Public Health Association.

Courses.

Course I. Elementary Bacteriology . Professor Leonard
Sophomore Year. Five Hours a week throughout the year.

Two hours a week are devoted to lectures and recitations and six hours a week to laboratory work throughout the year. Each student receives a complete equipment for bacteriological work and prepares his own culture media. Types of non-pathogenic bacteria are studied and when the student understands the technique and learns to observe the rules of disinfection and sterilization, the principal pathogenic bacteria are isolated, cultivated and stained. The technique of experimental inoculation is emphasized.

Course II. Advanced Bacteriology . Professor Leonard
Elective for Junior and Senior Students. October 1
to December 23.

To those Junior and Senior students who show themselves interested in advanced bacteriological work, this course is offered. Emphasis is laid on the bacteriological diagnosis of exudates, excretions and body fluids obtained at the clinics or hospitals. The student is taught to verify his results in the laboratory. Cultures are made at autopsy of these cases and the aim of this course is to make each student an independent investigator.

Course III. Serum Therapy and Diagnosis Professor Leonard
Elective, Juniors and Seniors. December 20—April 1.
This course is open to those Senior and Junior students who show special interest and adaptability in laboratory work. It consists of lectures and laboratory demonstrations. The various animal sera used in medicine are discussed. This is followed by a study of the use of culture-products and filtrates, together with the application of the modern explanations of immunity. Group and specific agglutinins and their relation to diagnosis are discussed.

Course IV. Bacteriological Part of Public Health
. Professor Leonard
Seniors. April 1 to June 1 (Elective.)

This course is offered especially for the benefit of those Senior students who contemplate medical practice in rural districts. It is composed of lectures and laboratory demonstrations. The methods and technique of examination of water, milk and sewage are emphasized. The student is made familiar with the methods of disinfection and fumigation in their relation to the prevention of epidemics. Practical demonstrations are given of the value of the principal germicides. A complete resume of the infectious diseases is given and the means of tracing the source of epidemics is outlined in detail.

Course V. Research Professor Leonard
Elective. Hours to be arranged.

Junior and Senior students who have mastered bacteriological technique and who show special adaptability in laboratory methods are invited to do research work. Every encouragement is offered to those who elect this course.

DEPARTMENT OF PATHOLOGY.

Stanley P. Black, Ph. M., M. D.,
. Professor of Pathology and Histology
W. A. Anderson, M.D. Instructor in Clinical Microscopy
M. H. Ross, M.D. Demonstrator in Post-Mortem Pathology
A. J. Scott Assistant in Pathology

Equipment.

The department of pathology occupies the greater portion of the Hendryx Laboratory building, a two-story structure admirably adapted to the uses for which it was built. The main laboratory on the second floor is lighted on four sides and is fitted with glass top tables and supplied with all the necessary accessories for proper instruction in this important branch, there being an ample supply of Bausch and Lomb, Leitz and Spencer microscopes, and Freezing and Thoma and Schanze model microtomes and a Leitz projection microscope. No rental fees are charged for the use of microscopes. The laboratory is always open during the daylight hours, and students are allowed access to their microscopes and other apparatus at any time.

On the first floor of the Hendryx building are two research laboratories, the pathological museum and the laboratory and the office of the head of the department. The museum is always open and possesses a valuable and rapidly growing collection. In addition to these facilities the dispensary building contains a commodious clinical laboratory well equipped for the examinations of the excreta and of the tissues of the medical and surgical patients of the clinics.

Text-Books.

For Study: Stengel.

For Collateral Reading: Ziegler.

Courses.

Course I. General Pathology Professor Black
Sophomore Year. Two lectures and six laboratory hours for thirty weeks.

Instruction is by lectures, recitations and laboratory work, along lines similar to those pursued in histology.

The subjects covered in this course include a discussion of the general causation and nomenclature of disease processes, and includes the study of inflammation, the degenerations and the tumors. In the laboratory the student is required to examine, and make drawings with accurate descriptions, of a large number of unstained and stained specimens, the student's drawings and notes being taken into consideration for the final mark of the year.

During this course the organs from about 25 to 30 autopsies besides a large number of specimens removed at operations, are demonstrated.

Course II. Special Pathology Professor Black
Junior Year. Two hours of lectures or recitations and four hours of laboratory work throughout the year. In this course the special lesions which affect the various tissues and organs of the body are considered and practical instruction is given in the examination of urine, sputum, blood, vomitus and stomach contents, faeces, inflammatory exudates.

Course III. Clinical Microscopy
. Professor Black and Dr. Anderson
Junior Year. Two hours a week throughout the year. A laboratory course in the examination of pathological tissues, fluids and excreta of the human body.

Course IV. Gross Pathology and Post-Mortem Technique Professor Black and Mr. Scott
 Senior Year. Hours to be announced.

This course is open to the Senior Class. It includes diagnosis from naked eye inspection of diseased organs, obtained from operations, autopsies or from the museum.

Methods of making autopsies are demonstrated to the students of the Senior Class, and the students are requested to take turns in assisting. Stress is laid on the technique of performing autopsies, the preparation of protocols, and the steps of a systematic examination, intended to determine the cause of death.

Course V. Elective Course in Laboratory Diagnosis Professor Black and Dr. Anderson

This course is open to the Senior Classes. It includes the study for purposes of diagnosis of specimens of urine, sputum, blood, stomach contents, transudates and exudates, and tissues removed at operations.

Course VI. Research Professor Black

To those who have had adequate training, opportunity will be offered to carry on research work in pathology, the courses to be arranged with the head of the department.

DEPARTMENT OF MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS.

Joseph M. King, M.D. Professor of Materia Medica
and Therapeutics

Garret Newkirk, M. D. Lecturer on Dental Hygiene

George H. Kress, M. D. Lecturer on Climatology

Sumner J. Quint, M. D. Instructor in Materia Medica

Arthur Godin, M. D. Instructor in Materia Medica

Albert Soiland, M. D. Instructor in Electro-Therapeutics

John Rankin, M. D. Instructor in Manual Therapy

Raymond Taylor, M. D. Instr. in Experimental Pharmacology

G. A. Lewis, Ph. G. Demonstrator in Practical Pharmacy

Equipment.

The laboratory for pharmacological experimentation is on

the second floor of the main building and is supplied with all the equipment needed in such work.

The drug room of the dispensary building is of ample size and is always well stocked with all the materials necessary in the preparation of pharmaceutical preparations.

The dispensary clinics with an average of several hundred prescriptions daily, give ample drill in practical pharmacy, and the large clinics allow every student to become proficient in the art of prescription writing.

Text-Books.

For Study: Butler, Hare.

For Collateral Reading: United States Dispensatory, Bartholow, Wood.

Courses

Course I. Materia Medica Dr. Godin
Freshman Year. One hour per week throughout the year.

This course comprises a study of the physical and chemical properties of drugs, their action on the body, the indications for their use, and the form and dosage in which they are prescribed.

Course II. Practical Pharmacy Mr. Lewis
Freshman Year. Two hours a week throughout the year.

In this course, which is given in the drug and dispensing rooms, the student is required to prepare the more important pharmacopeial preparations, to study weights and measures, compatibilities, and the relations of different drugs in their various forms.

Course III. Materia Medica Dr. Quint
Sophomore Year. Once a week throughout the year. The drugs in ordinary use are divided into classes, according to their action on the body. The comparative action and the therapeutic value of the different drugs in each group is then discussed.

Course IV. Experimental Pharmacology . . . Dr. Taylor
Sophomore Year. Two hours a week for half the year.

The effects of administering drugs to animals (under anaesthesia) and noting the result of therapeutic and tonic doses on the body functions is carried on under the supervision of the demonstrator.

Course V. Dispensing Pharmacy Dr. Quint and Mr. Lewis
Sophomore Year. Two hours a week for half the year.

This course takes up prescription writing and discusses pharmaceutical and therapeutical incompatibles. Practical instruction in dispensing prescriptions in the Dispensary Drug Room, is given to the students in sections.

Two Freshmen, two Sophomores and one Junior assist the Pharmacist in his daily work.

Course VI. Therapeutics Professor King
Junior Year. Two hours a week throughout the year. This is intended to be a course in applied therapeutics and the treatment of individual diseases is studied and the application of therapeutic agents to them is discussed.

Course VII. Dental Hygiene Dr. Newkirk
Senior Year. Hours to be announced.

A course of lectures on the hygiene of the mouth and teeth.

Course VIII. Manual Therapy Dr. Rankin
Junior Year. Two hours per week for four weeks.

This is a practical clinical course with quizzes on essential anatomical and physiological points. The class is divided into small sections; the various manipulations and movements used in the treatment of disease are demonstrated and the students required to make personal application of the methods upon clinical cases.

Course IX. Electrotherapeutics and Radiology Dr. Soiland
Senior Year. One hour a week for 12 weeks.

Lectures upon and demonstrations with the various electrical currents used in medicine and surgery. Electrophysics, Electrodiagnosis and Electrotherapeutics. The Rontgen Rays—Diagnosis by means of the Fluoroscope and the photographic plate. Rontgen-therapy, or the application of the X-Rays in treatment.

The College and Dispensary are equipped with modern and efficient apparatus, consisting of a standard 16 plate Toeppler Holtz Induction machine. Direct and Induced Current Generators and a powerful coil of the Ruhmkorff type for the X-Ray work.

Course X. Climatology Dr. Kress
Senior Year. An Elective Course. Hours to be announced.

A discussion of the instruments and methods used for determining weather conditions, atmosphere, temperature, winds, and moisture, physiological effects of weather elements and conditions on the man under physiological and pathological conditions, the use of the various elements of climate in the prevention and treatment of disease. There is also included a description from the therapeutic standpoint, of the various health resorts and mineral springs, especially of California.

DEPARTMENT OF HYGIENE AND STATE MEDICINE.

Henry S. Orme, A.B., M.D.	. . . . .	Professor of Hygiene and State Medicine
L. M. Powers, M.D.,	. . . . .	Assistant Professor of Hygiene and State Medicine

Facilities.

In addition to the didactic teachings, Associate Professor Powers, who for the last ten years has been Health Officer

of Los Angeles, places at the disposal of the students, the laboratory and other practical facilities of the Health Department of the City.

Text_Books.

For Study: Willoughby.

For Collateral Reading: Harrington, Parke's, Berg.

Courses.

Course I. Hygiene and State Medicine Professors Orme and Powers
 Junior Year. One hour a week throughout the year.
 The teaching of hygiene and preventive medicine in this course is a continuation of the rudiments of this branch as taught in the departments of chemistry, physiology, bacteriology, pathology and medicine. The course includes a consideration of the chemical and bacterial analysis of air, water, milk, the preservation and adulteration of foods, and the general diagnosis, control and prevention of infectious diseases as applied to both the general control and personal hygiene.

Course II. Research Professor Powers.
 Elective. Hours to be arranged.
 Dr. Powers as Health Officer of Los Angeles gives students who show interest in this important branch an opportunity to do practical work in elected lines, as voluntary assistants. Subjects worthy of investigation are sanitary engineering as applied to water supplies, sewage, street cleaning, buildings, sanitary legislation, inspection of meat, milk and other animal products, social and vital statistics of the United States.

DEPARTMENT OF OBSTETRICS.

Melvin L. Moore, M.D., Professor of Obstetrics
 Titian J. Coffey, M. D., Instructor in Clinical Obstetrics
 Edmond M. Lazard, M.D. Instructor in Obstetrics

Facilities.

The County Hospital, the Dispensary Clinic and the

College Settlement and the Rescue Homes, as well as the out-patient facilities of the College offer exceptional opportunities for practical work and study in obstetrics.

Text-Books.

For Study: Jewett.

For Collateral Reading: American System.

Courses.

Course I. Theory of Obstetrics Prof. Moore and Dr. Lazard
Junior Year. Two hours a week throughout the year.

A systematic course of lectures and quizzes on the anatomy and physiology of the pelvic organs, the development of the embryo and appendages and normal pregnancy.

Course II. Practical Obstetrics Dr. Coffey
Senior Year. One hour a week throughout the year. Lectures and demonstrations on the manikin and cadaver dealing especially with the mechanism and conduct of labor and its complications. The various procedures are performed by the students.

Course III. Clinical Obstetrics Dr. Coffey
At the County Hospital, ante-partum and post-partum teaching and the care of infants are considered, students being summoned to witness and assist in normal and operative pregnancies. Students are also required to attend confinement cases among the poor at their own homes and in the affiliated hospitals.

Course IV. Practice of Obstetrics. Prof. Moore and Dr. Lazard
A systematic course of lectures and quizzes on abnormal pregnancy, mechanism and conduct of normal labor, operative obstetrics, complications of labor and its sequelae. Lectures are illustrated by drawings, by demonstrations on manikin and by attendance upon cases of labor,

DEPARTMENT OF MEDICINE.

J. H. Utley, M. D.,	Professor of Medicine
Geo. L. Cole, M. D.,	Professor of Clinical Medicine
D. C. Barber, A. B., M. D.,	Professor of Clinical Medicine
W. Jarvis Barlow, A.B., M.D.,	Professor of Clinical Medicine
F. M. Pottenger, A. M., M. D.,	Professor of Clinical Medicine
Randall Hutchinson, A.M., M.D.,	Professor of Physical Diagnosis
Joseph M. King, M. D.,	Lecturer on Medicine
Dudley Fulton, M. D.,	Lecturer on Medicine
L. G. Visscher, M.D.	Lecturer on Diseases of the Stomach and Bowels
George H. Kress, B. S., M. D.,	Lecturer on History of Medicine
Donald Frick, M. D.,	Instructor in Clinical Medicine

Facilities.

The Principles and Practice of Medicine are taught didactically by the Professor of Medicine and his assistants, in lectures, recitations and when desirable, by demonstrations on patients.

Clinical Medicine is taught at the Los Angeles County, Sisters' and Emergency Hospitals and at the Barlow Sanatorium by the Professors of Clinical Medicine, and at the College Dispensary by the Attending Clinicians.

Text-Books.

For Study: Musser, Tyson, Osler, Le Fevere's Physical Diagnosis.

For Collateral Reading: Cabot and Sahli on Physical Diagnosis; Pottenger, Turban, Fanning on Tuberculosis; Loomis, Purdy, Anders.

Courses.

Course I. Physical Diagnosis . . . Professor Hutchinson
Sophomore Year. One hour per week throughout the year.

This is a preliminary course and intended to familiarize the student with the general principals of physical diagnosis.

It consists of lectures with diagrams, recitations and practical demonstrations on patients of the normal and pathological physical signs.

Course II. Physical Diagnosis . . . Professor Hutchinson
Junior Year. One hour per week throughout the year.

This is a practical course and the class is divided into divisions of 8 to 10 students. Each division is taken into the wards of the County Hospital where the students are taught to make examinations and to recognize the physical signs and their significance in disease.

This course is further supplemented by similar practical examinations of patients at the daily Medical Clinics at the College under the supervision of the clinical instructors.

Course III. Principles and Practice of Medicine Dr. Fulton
Junior Year. Three hours per week throughout the year.

Medical terminology and the more important manifestations of disease in its various types, with regard to the anatomy, physiology and diagnostic significance are considered. The recitations take the student over the field covered by an approved textbook on the practice of medicine.

Course IV. Principles and Practice of Medicine Dr. King
Senior Year. Two hours per week throughout the year.

These lectures and recitations cover the subject of medicine systematically and are illustrated by demonstrations on patients, illustrations, etc.

Course V. Principles and Practice of Medicine Prof. Utley and Special Lectures.

Senior Year. One hour per week throughout the year.

A lecture course conducted by Professor Utley, Dr. Visscher and special lecturers on circulatory, alimentary and respiratory diseases and on the acute infections.

Course VI. Case Taking and General Symptomatology Attending Clinicians in Medicine

Junior Year. Six hours per week for half the year.

A practical course in the Dispensary Clinic designed to familiarize the students with the best methods of getting the data necessary for a proper diagnosis and treatment. Taught in sections.

Course VII. Laboratory Work in Clinical Medicine Attending Clinicians

Junior Year. Four hours per week for fifteen weeks. In sections.

The Dispensary Laboratory is equipped with all the necessary apparatus and supplies for the proper demonstration of blood, sputum, urine, feces, gastric contents, exudates, transudates, etc. Each student thus becomes thoroughly familiar with this kind of technique.

Course VIII. Bedside Instruction in Clinical Medicine Professors Barber, Cole, Barlow and Pottenger, and Dr. Frick
(Senior Year. Four hours per week throughout the year.

This course is entirely practical, the class working in sections at the Los Angeles County Hospital, the Sisters' Hospital and Barlow Sanatorium, the student being required to take the histories, make daily note of the progress of the disease, as well as clinical examination of the excreta, the general demonstrations by the attending professor being designed to make the student work out the case for himself. Students here have opportunities to study

the natural history of disease as presented in patients and can follow cases of typhoid fever, tuberculosis, pneumonia, etc.

Tuberculosis.—Professor Pottenger gives a course of sixteen hours devoted to the subject of tuberculosis. In this course, special attention is given to instruction in early diagnosis. Aside from this regular course the students are invited to attend the clinics at the Helping Station of the Southern California Anti-Tuberculosis League where the practical care of the tuberculous from the standpoint of prophylaxis and treatment is carried out by Professor Pottenger and his assistants.

Course IX. Dispensary Instruction in Clinical Medicine

Attending Clinicians

Senior Year. Four hours per week throughout the year.

The Dispensary Clinic handles hundreds of cases annually, and abundant opportunity is thus afforded to students to familiarize themselves with all the commoner forms of disease.

Course X. Out-door Practice in Clinical Medicine

Attending Clinicians

Senior Year. Two weeks' service, at least, during the year.

In connection with the College Settlement.

Course XI. Gastro-Intestinal Diseases

Dr. Visscher

Seniors. One hour a week throughout the year.

A course of lectures on diseases of the stomach and bowels, with special reference to their treatment.

Course XII. History of Medicine

Dr. Kress

Senior Year. An Elective course. Hours to be announced.

An elective course of lectures is given on the history of medicine and of the medical profession from the earliest times, including accounts of the epoch mak-

ing discoveries in medicine, brief sketches of the lives of eminent foreign and American physicians and an account of the great plagues of history.

Course XIII. Examination for Life Insurance Dr. Davis
Senior Year. Elective. Hours to be announced.
An optional course on the nature and purpose of life insurance, the duties and essential qualifications of the examiner for life insurance, etc.

DEPARTMENT OF DISEASES OF THE MIND AND NERVOUS SYSTEM.

H. G. Brainerd, A. B., M. D.,
Professor of Diseases of the Mind and Nervous System
Ross Moore, M. D.,
Instructor in Diseases of the Mind and Nervous System

Facilities.

The College Dispensary and the insane wards of the Los Angeles County Hospital offer an abundance of clinical material in psycho and neuro-pathy.

Text-Books.

For Study: Dana, Clanston.

For Collateral Reading: Gowers, Spitzka, Oppenheim.

Courses.

Course I. Mental Diseases Professor Brainerd
Senior Year. One hour a week for half the year.
Systematic lectures with bi-monthly quizzes by Dr. R. Moore on the essential principles of insanity; its nature, prominent features and psychology; the classification, duration, diagnosis and treatment of mental diseases; the jurisprudence of insanity, physicians' duties and rights in medico-legal examination of the insane, the examination and commitment of the insane and so on.

Course II. Nervous Diseases Professor Brainerd
Senior Year. One hour a week for half the year.
A systematic course of lectures on the functional and organic diseases of the brain and spinal cord.

Course III. Clinical Instruction
 Professor Brainerd and Dr. Moore
 Junior and Senior Years. Three hours per week.
 Professor Brainerd and Dr. R. Moore give one clinic a week at the County Hospital. Two clinics each week are held by Dr. Moore at the College Dispensary. At the County Hospital, cases are assigned in advance to students who write up the history and read it before the class, exhibiting the patient at the same time, and are questioned by the instructor as to their diagnosis and prospective treatment, and the case is still further lucidated in regard to the prognosis and treatment by the instructor. The senior class is divided into two sections and the members are carefully instructed as to the method of eliciting history and the physical examination of the patient.

DEPARTMENT OF PEDIATRICS.

E. A. Follansbee, M. D., Professor of Diseases of Children
Wm. A. Edwards, A.M., M.D. Professor of Diseases of Children

Facilities.

The College Dispensary offers exceptional facilities for the study of the various medical and surgical diseases of children, the number of patients attending the children's clinic being unusually large.

Text-Books.

For Study: Taylor and Wells.

For Collateral Reading: Holt, Rotch.

Courses.

Course I. Lectures on Pediatrics . Professor Follansbee
 Junior Year. One hour a week throughout the year.
 A course of lectures and recitations on the general diagnosis, symptomatology and therapy of diseases of children. The special characteristics of the normal infant and child are considered, the symptomatology, diagnosis and treatment of pathological conditions then being taken up.

Course II. Lectures on Pediatrics . Professor Edwards
Senior Year. One hour a week for half a year.

A course of lectures on methods of examination of the infant and child, history taking and the general care and feeding of the growing infant.

Course III. Operative Surgery on the Child Prof. Edwards
Senior Year. One hour a week for half the year.

A practical course of lectures in which all the usual operations which a surgeon may be called upon to perform on children, are demonstrated before the class upon dogs, students assisting.

DEPARTMENT OF SURGERY.

Joseph Kurtz, M.D.	Professor of Clinical and Orthopedic Surgery
George W. Lasher, M. D.	Professor of Surgery
W. LeMoyné Wills, M. D.	Professor of Clinical Surgery
E. A. Bryant, M. D.	Professor of Clinical Surgery
Claire W. Murphy, M.D.	Professor of Descriptive and Surgical Anatomy
E. T. Dillon, M. D.	Instructor in Surgery
Titian Coffey, M.D.	Instructor in Bandaging
Thomas R. McNab, M.D.,	Assistant in Minor Surgery

Facilities.

Surgery is taught in this College by first giving a most thorough course in anatomy and dissection.

In addition to a thorough course of didactic teaching (lectures and recitations illustrated by specimens from the museum) the practical facilities at the College Dispensary and at the Los Angeles County, the Sisters' and the Emergency Hospitals, are exceptionally good.

Text-Books.

For Study: American Text-book, Warren; Whitman on Orthopedic Surgery; Bickham on Operative Surgery; McGrath on Operative Surgery.

For Collateral Reading: Kocher, J. D. Bryant, Da Costa, International Text-book, Moullin.

Courses.

- Course I. Minor Surgery and Bandaging**
Professor Wills and Drs. Coffey and McNab

Sophomore Year. One hour per week for twenty weeks. This course aims by systematic lectures and clinical demonstrations, to thoroughly impress the student with the essentials of asepsis and the uses and application of bandages, plaster of Paris, and other surgical dressings. The student is required to apply these dressings upon patients, upon animals and upon the cadaver, under the personal supervision of the demonstrator.

- Course II. Surgical Pathology** . . . Professor Murphy
Junior Year. Two lectures per week throughout the year.

A course of lectures, recitations and demonstrations illustrated by lantern slides and microscopic sections upon the screen and by demonstration of specimens from the surgical clinic and museum.

- Course III. The Principles and Practice of Surgery** . . .
Professor Lasher and Dr. Dillon
Junior Year Three hours per week throughout the year.

A systematic course of lectures and recitations on general surgery, the ground covered in this year including the aspects of surgical inflammations, wounds, infections, gangrene, surgical syphilis and tuberculosis, fractures, dislocations, surgery of joints, surgical diseases of bones, surgical diseases and injuries of muscles, tendons, bursae, heart, lymphatic and nervous systems.

- Course IV. Operative Surgery** . . . Professor J. Kurtz
Senior or Junior Year. One hour a week throughout the year.

Lectures and recitations upon the principles of operative procedure; the preparation of patients, operator, and operating rooms, the principles of asepsis,

and sterilization; anaesthesia. and anaesthetics, haemostasis, ligatures and sutures, dressings, bandages and the treatment of wounds.

Course V. Operative Surgery on the Cadaver . Prof. Wills
Junior or Senior Year. Two hours a week for thirty weeks.

In this course the students perform or assist the demonstrator in performing operations upon the cadaver, such as ligations, amputations, disarticulations and excisions of extremities, appendectomy, intestinal anastomosis, herniotomy, the gall-bladder operations, trephining, tracheotomy and intubation.

Course VI. Dispensary Surgery . Attending Clinicians
Junior Year. Six hours per week throughout the year. The College Dispensary is splendidly equipped for the most thorough and aseptic surgical work. More than one thousand surgical cases are treated annually. Under the eye of the demonstrator the student is allowed to dress and conduct the treatment of cases as far as possible. Patients needing attention at their homes are assigned to students, who are required as part of their regular duties to visit and make full report concerning them.

Course VII. Hospital Clinics
. Professors, Lasher, Kurtz and Bryant
Junior and Senior Years. Six hours a week throughout the year.

At the Los Angeles County and City and at the Sisters' and Emergency Hospitals operations covering the entire field of surgery, are witnessed by the students of the Junior and Senior Classes. An opportunity to assist in operations is frequently given to qualified students.

Course VIII. Orthopedic Surgery . . Professor J. Kurtz
Senior Year. Twice a week for fifteen weeks.

A course covering the diagnosis and treatment of congenital and acquired deformities, and of dystro-

phies. Instruction is also given in the application of apparatus, plaster of Paris and corrective dressings, the use of orthopedic gymnastic devices, the construction of braces, the treatment of lateral curvature, paralysis, etc. Opportunity is given to qualified students to perform the necessary manipulations.

Course IX. The Principles and Practice of Surgery Professor Lasher
 Senior Year. Two hours per week for thirty weeks.
 A continuation of Course VII. Lectures and recitations on the surgical pathology and treatment of neoplasms, surgical diseases and injuries of the head, neck, chest, abdomen, pelvis and their contiguous parts.

DEPARTMENT OF GYNECOLOGY.

Carl Kurtz, M.D. Professor of Gynecology
W. W. Beckett, M. D. Professor of Gynecology

Facilities.

The clinical teaching is at the County and Sisters' and the various private hospitals with which members are connected and at the College Dispensary, the range of conditions treated and witnessed by the students being very great.

Text-Books.

For Study: Montgomery's Practice of Gynecology; Practice of Gynecology by Ashton; Diseases of Women by Penrose.

For Collateral Reading: Operative Gynecology by Kelly; Clinical Gynecology by Keating and Coe.

Courses.

Course I. Systematic Lectures
 Professors C. Kurtz and Beckett
 Senior Year. One hour a week throughout the year.
 A systematic course of lectures covering the various medical and operative procedures in connection with diseases of women.

Course II. Clinical Gynecology
 Professors C. Kurtz and Beckett

A practical course in which the examination of patients, and the methods of examination, diagnosis and treatment are considered. In the Dispensary opportunity is given students to become familiar with the necessary technique and at the public and private hospitals, the students have an opportunity to witness and assist in almost every operation in this branch of surgery.

DEPARTMENT OF OPHTHALMOLOGY.

H. Bert. Ellis, A.B., M.D. . . . Professor of Ophthalmology
 H. A. Kiefer, M.D. . . . Adjunct Professor of Ophthalmology
 F. D. Bullard, A.M., M.D. . . . Instructor in Ophthalmology
 R. A. Harris, M.D. Instructor in Ophthalmology

Facilities.

In addition to manikins, large models of the eye and charts, the Dispensary Clinic and the Los Angeles County Hospital furnish an abundance of clinical material.

Text-Books.

For Study: May.

For Collateral Reading: Ball, DeSchweinitz, Theobald.

Courses.

Course I. Recitations Dr. F. D. Bullard
 Junior Year. One hour per week for half the year.
 The anatomy and physiology of the eye, the pathology, the diagnosis and treatment of its diseases are considered as well as the rudiments of physiological optics.

Course II. Systematic Lectures . . . Professor Ellis
 Senior Year. One hour a week throughout the year.
 The internal and external diseases of the eye, anomalies of ocular muscles, the fundus lesions and their relationship to general diseases, are studied.

Course III. Clinical Work
 . . . Professors Ellis and Kiefer, and Dr. Bullard
 Senior Year. One hour a week throughout the year.
 The methods of examining the patient, external ex-
 aminations of the eye, functional testing, medical
 ophthalmoscopy and medical and operative ophthal-
 mology are considered, the clinics in the Dispensary
 and the County Hospital providing an abundance of
 patients.

DEPARTMENT OF OTOTOLOGY, RHINOLOGY AND LARYNG- OLOGY.

Wm. D. Babcock, A. M., M. D.,
 Professor of Diseases of the Ear, Nose and Throat
Hill Hastings, M.D.
 Lecturer on Diseases of the Ear, Nose and Throat
A. L. Kelsey, M. D.,
 Instructor on Diseases of the Ear, Nose and Throat

Facilities.

An excellent clinic has been built up in diseases of the ear, nose and throat at the College Dispensary, so that ample material is at hand to draw upon for demonstration. The County Hospital and private hospitals furnish a further supply of clinical material.

Text-Books.

For Study: Coakley, Bacon.

For Collateral Reading: Bosworth, Kyle, Whiting.

Courses.

Course I. Anatomy, Physiology and Pathology Dr. Hastings
 Junior Year. One hour a week for half the year.
 Recitations on anatomy, physiology, pathology, of the
 ear, nose and throat. Large models, wet and dry
 specimens, and charts are used to illustrate the in-
 struction.

Course II. Systematic Lectures . Professor Babcock
Senior Year. One hour a week throughout the year.

The diseases of the ear, of the nose and its accessory cavities, of the pharynx, fauces and larynx are systematically studied both from their local importance and in their connection with constitutional conditions. Special attention is paid to treatment.

Course III. Clinical Teaching . Professor Babcock, and
Doctors Hastings and Kelsey

Senior Year. Two hours a week throughout the year. The ample material of this department permits the students to acquire a thorough acquaintance with both normal and abnormal conditions of ear, nose and throat, the students receiving personal instruction in the methods of examination and of instruments, and performing minor operations. Opportunity is offered interested students to witness and assist in numerous private operations.

DEPARTMENT OF SKIN AND GENITO-URINARY DISEASES.

Granville McGowan, M. D.
Professor of Genito-Urinary Diseases
Ralph Williams, M. D. Professor of Diseases of the Skin

Facilities.

These branches demanding for their proper understanding, clinical demonstrations, the instruction is carried on almost exclusively in the College Dispensary and the Los Angeles County Hospital.

Text-Books.

For Study: Jackson, Montgomery, Hyde, White, Martin, Lydston, Walker.

For Collateral Reading: Crocker, Kaposi, Caspar, Hyde, Brocy.

Courses.**Course I. Dermatology and Syphilology**

. Professors MacGowan and Williams
 Junior Year. One hour a week throughout the year.
 Clinical teaching at the Dispensary covering the
 anatomy and physiology of the skin and its append-
 ages, venereal and genito-urinary diseases. Especial
 attention is paid to the differential diagnosis between
 syphilitic and non-syphilitic affections.

Course II. Genito-Urinary Diseases

. Professors MacGowan and Williams
 Senior Year. One hour a week throughout the year.
 The principal operations upon the male urinary and
 genital organs are demonstrated before the class, stu-
 dents in turn being allowed to assist. Special atten-
 tion is given to diagnosis and to post-operative man-
 agement of cases.

DEPARTMENT OF MEDICAL JURISPRUDENCE.

Nathaniel P. Conrey, LL. B., A. M.,

. Professor of Medical Jurisprudence

Text-Books.

For Study: Taylor.

For Collateral Reading: Reese.

Courses.**Course I. Medical Jurisprudence . . . Professor Conrey**

Senior Year. One hour a week for half the year.

A course of lectures on the legal aspect of medical
 testimony, and the rights and duties of physicians in
 their relations to patients. Topics considered include
 the physician's liability formalpractice, medico-legal in-
 spection, violent death, criminal infanticide,
 life insurance and so on, the design being to teach
 the student what the state expects and has a right to
 demand of him, and what are his own rights as a
 medical expert.

DEPARTMENT OF MEDICAL ECONOMICS.

Walter Lindley, LL. D., M.D., . . . Emeritus Professor of
. . . Gynecology, and Lecturer on Medical Economics

Facilities.

In recent years, the medical profession has begun to realize as never before that to bring high educational and public health standards into existence an organized profession is absolutely necessary. Also, that it is a part of medical training to teach students not only concerning their duties to their patients, but to the state and to their own profession. This College therefore provides a course of lectures on these subjects and in addition urges attendance at the meetings of the Los Angeles County Medical Association, and membership in the scientific clubs which have been formed by the students.

COURSES.

Course 1. Medical Economics Professor Lindley
Senior Year. Hours to be announced.

A course of lectures designed to remind the student of his duties as a practitioner, to his patient, to his profession and to his State.

DEPARTMENT OF MEDICAL LITERATURE.**Equipment.**

The Barlow Medical Library is a handsome, dignified, dome-shaped, re-inforced concrete, absolutely fire proof structure, containing a main reading room with stacks for books, and a series of smaller rooms where research and special studies can be carried on.

The library is open from 9 A. M. to 5 P. M., and is in charge of a trained librarian, who gives her entire time to the work.

A modified Dewey system of classification is used, the books being catalogued by author, subject and title, so that they can readily be used for consultation in the reading room or for withdrawal from the Library.

The privileges of the Library are open not only to the medical students of the Medical Colleges and the physicians of Los Angeles, but the entire profession of the Southwest, and alumni and friends are requested to send books and publications which they are willing to donate to the librarian. Due acknowledgement will be made for all donations or loans.

The Library has on its shelves some four thousand volumes and about three thousand pamphlets and accessions are being constantly made by purchase, by exchange and by donations. All the more important texts and monographs and files of journals needed for reference in making original investigations are to be found here. In addition, arrangements have been made with other large medical libraries to obtain for loan use, such volumes as may be needed in pursuing research work.

Courses.

Course I. Study of Medical Literature

Elective. Hours to be announced.

A course designed to familiarize students with the underlying principles of medical card cataloguing as well as to teach by practice, the best methods of covering the literature on assigned subjects.

THE COLLEGE OF PHARMACY

OFFICERS.

President	Walter T. Taylor
Treasurer	L. N. Brunswig
Secretary	Fred C. McKinnie

ADVISORY BOARD.

Walter Lindley, M. D., LL.D., Granville McGowan, M.D.,
L. N. Brunswig, L. D. Sale, F. M. Boswell,
Frank Moore, F. F. Bothwell.

CALENDAR, 1906-1907.

Oct. 21, Monday—Regular term begins at the College Building.

Dec. 20, Friday—Christmas holidays begin.

Jan. 2, Thursday—Lectures resumed.

May 1—Term closes.

On all legal holidays of State of California the calendar will be suspended.

COLLEGE OF PHARMACY.

The demands of pharmaceutical progress today require representatives who possess technical knowledge. To supply this demand, the College of Pharmacy is affiliated with the University of Southern California; its aim and purpose being to create a means for higher pharmaceutical education, and supply a broader foundation for the students' future professional career, by providing systematic instruction, and special training in those subjects requisite for the successful practice of pharmacy.

Course of Instruction.

The system of instruction will include lectures, demonstrations, recitations, written and oral examinations, as well as individual instruction in operative and dispensing pharmacy, organic, inorganic, and analytical chemistry, botany,

materia medica, pharmacognosy, toxicology, and microscopy, with special lectures upon business topics especially suited to the retail pharmacist.

Session.

The session will open October 22, 1907, and will continue until May 3, 1908, and the schedule will be conducted during the day and evening so as to allow students the privilege of retaining their positions as clerks in the stores of Los Angeles and neighboring towns while attending college.

Requirements for Admission.

Applicants for admission must be at least sixteen years of age, and must furnish evidence of their ability to prosecute the work of the course successfully. The preliminary education should be equivalent to that required for entrance to high school.

Advanced Standing.

Students who have pursued courses of study in other colleges of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this college.

Requirements for Graduation.

The candidate for the degree of Graduate in Pharmacy must be twenty-one years of age, have had four years' practical experience in pharmacy, including the period of attendance at college, and must have attended two annual courses of instruction, the first of which may have been in some other reputable college or school of pharmacy, he must have attended regularly the laboratory and lecture course of the College and have satisfactorily finished the required work. The candidate for the degree of graduation in pharmacy who presents himself for final examination before he has attained the age or practical experience required, will if successful, receive a certificate of having finished the course, and will be awarded his diploma when the requirements of age and experience are complied with.

COURSE OF INSTRUCTION.**Pharmacy.**

Prof. W. T. Taylor and Mr. Arthur Maas.

JUNIOR YEAR—Six hours per week.

The lectures of the Junior year will treat of the history of the Pharmacopoeia. Weights and measures, percentage solution and the arithmetic of dispensing and manufacturing pharmacy, owing to their importance, will be considered at length. Specific gravity and specific volume will be taught by demonstrations, using the various apparatus for the purpose, accompanied by a thorough explanation of each. Heat will next be considered, then the operations wherein heat is used; evaporation, distillation, sublimation, desiccation, exsiccation, etc. This will be followed by a discussion of the preservation of crude drugs and their preparation for manufacturing purposes; then the operations of decantation, filtration, clarification maceration, infusion, decoction and percolation.

Alternating with the subject of operative pharmacy, the galenical preparations will be critically studied; while they will be discussed from the standpoint of their several classifications, such individual preparations as merit it will be given special consideration; the object being to familiarize the student with the reasons for each step taken in the manufacture of the different preparations. The use of expensive and complicated apparatus will be avoided, and while all labor-saving devices will receive proper attention, the student will be taught to improvise apparatus from such articles as are easily obtainable in the average retail store.

Text Books: Caspari's Pharmacy and U. S. Pharmacopeia.
SENIOR YEAR—Four hours per week.

The lectures of the Senior year will embrace the study of the inorganic and organic acids and the salts of the different metallic bases; the commercial methods of preparation will be touched upon, and a special effort will be made to teach the student how to prepare them extemporaneously

when necessity arises therefor. In addition to the official compounds, those unofficial ones which, through frequency of use, merit it, will likewise be treated of.

This will be followed by a study of alkaloids, the neutral principle of vegetable drugs and the essential oils.

Extemporaneous pharmacy will then be taken up and will include a thorough discussion of dispensing. Facsimiles of physicians' prescription will, by means of the stereopticon be thrown upon a screen, and the class drilled in reading those that are difficultly legible. Chemical and pharmaceutical incompatibilities will be taught, and best methods discussed for overcoming same.

Text Books: U. S. Pharmacopoeia and Ruddiman's Incompatibilities in Prescriptions.

Laboratory.

JUNIOR YEAR—

Instruction will be given in the proper use of pharmaceutical apparatus. Determinations in specific gravity and specific volume will be made by each member of the class. This will be followed by a course in the manufacture of the galenical preparations, each student being required to make one or more of each class.

SENIOR YEAR—

This will consist of a course in the granulation and purification of commercial chemicals, to be followed by a course in the manufacture of the simpler chemical compounds in order to drill the students in their extemporaneous preparation.

Dispensing Pharmacy.

In this subject, actual experience will be given two hours each week to students, in compounding and dispensing prescriptions, under the supervision of Mr. Fred C. McKinnie, at the College clinics.

Materia Medica.

Prof. C. W. Hill.

This course consists of one lecture or recitation and one

laboratory exercise of two hours per week, and will present the subject in as broad, yet concise, form as possible. It will be confined to that instruction which will be of greatest benefit to the student when the course is completed, giving larger consideration to those drugs of animal or vegetable origin which in commerce are most frequently met with.

The subject will treat first of those drugs of animal derivation, and will thence proceed to give consideration to those drugs of Phanaerogamic and Cryptogamic origin. The lessons and lectures in *Materia Medica* will be based upon the pharmacopoeia; at the same time due observation will be given to those remedies which are unofficial. The order in which these agents will be taken up will be based upon a commercial classification, studying first the roots, which will be sub-classified according to analogous properties; thence continuing with Rhizomes, Barks, Flowers, Fruits, Seeds, etc. A prominent feature of the course will be found in the concurrent lecture system of instruction by oral question and bi-weekly test requiring written answers for correction.

Pharmacognosy.

Prof. C. W. Hill.

Instruction will be given two hours per week in this branch of studies, by lectures, as well as by recitations, quizzes, home study and examination of drugs—all these will be given with the view of enabling the student the more readily and thoroughly to identify the drug and give judgment as to quality.

The subject will be presented as follows:

First—Drugs of animal origin.

Second—Vegetable drugs.

Treating first the Cryptogams and next the Phanerogams.

Each drug will be considered as to its nature, origin, commercial and botanical relation, and microscopical structure, active principles, therapeutic action, doses.

Adulterations, admixtures and substitutions will be thoroughly discussed.

The latter part of this course will be given entirely to microscopical consideration of the subject and in connection the compound microscope, its mechanism and manipulation will be studied.

Chemistry.

Prof. L. J. Stabler, M.S., Ph. C.

Arthur Maas, Assistant.

JUNIOR YEAR—Four hours per week.

The course consists of one lecture or recitation and one laboratory exercise of two hours per week. The essential points of chemistry needed by a pharmacist are covered very thoroughly. A study is made of the laws governing chemical action and the properties of the common elements and their compounds.

The lectures are practically demonstrated by experiments, which assist the student in gaining a clear knowledge of the subject.

Junior Laboratory Course. The student is provided with a complete equipment of apparatus for qualitative analysis. Particular attention will be given to the separation and identification of the compounds of the U. S. Pharmacopoeia, together with tests of purity.

SENIOR YEAR—Four hours per week.

The work of this year is devoted to Organic Chemistry, Toxicology and Urine Analysis. The course will consist of lectures and practical laboratory work throughout the year on these subjects.

Organic Chemistry. The course will cover the whole field of this branch which is so important to the pharmacist. Special attention will be paid to those compounds which are of pharmaceutical value, including synthetical and medicinal preparations.

Toxicology and Urine Analysis. The course will include lectures and practical laboratory work in the identification of the common poisons and a careful study of the abnormal

constituents found in urine. Each student will make a complete analysis of a large number of samples from the hospital clinics.

Quantitative Chemistry. This course will cover the usual gravimetre and volumetre determinations. It will be a practical course in estimating the strength of pharmaceutical preparations.

Botany.

Prof. A. B. Ulrey.

The course in Botany comprises a thorough study of flowering plants during the Junior year and a survey of cryptogamic plant life in the Senior year.

Each phase of the subject is presented with reference to the special needs of the pharmacist. The complete course is sufficiently comprehensive to afford an acquaintance with all of the great departments of botany.

The course includes a study of the gross structure, functions and classifications of plants; the microscopic structure of the tissues and lower forms of plant life.

The laboratory for microscopic work is equipped with a good grade of compound microscopes, several hundred prepared slides and a complete electrical projection apparatus for demonstration of microscopic objects on the screen.

Special Lectures.

Arrangements will be made whereby special lectures upon Technical, Scientific and Business topics relative to pharmaceutical progress, will be delivered during the term by practical men, who from their experience and successful business careers are recognized as authorities upon these subjects.

Special lectures on the subject of Food and Drug Adulteration will be given during the course by Erwin H. Miller, B. S., Ph. C., City Chemist of Los Angeles.

FEEES AND EXPENSES.

Matriculation.

The fee for matriculation is five dollars and is required of junior students upon entering the class for the first time and of senior students who have taken the first year's work elsewhere.

Tuition Fees.

The tuition fee for each year is seventy-five dollars. The payment of this fee entitles the purchaser to one continuous course of lectures and laboratory instruction in all departments. The tuition fee covers all drugs, chemicals and other materials consumed by the student in the laboratories, no extra charge being made for these. Special students may, by permission of the faculty, take any part of the course at a proportionate tuition fee, providing that such fee shall not be less than twenty-five dollars.

Laboratory Deposit.

Chemical and pharmaceutical apparatus and supplies, together with microscopes and other implements required in the work of the course, are furnished by the College without expense to the student, but breakage or damage to apparatus must be paid for, and for this reason each junior or senior student is required to deposit ten dollars with the Secretary. This deposit, or such portion of it as is not required for the specified purpose, will be refunded at the close of the term.

A diploma fee of five dollars will be required.

Payment of Fees.

All fees must be paid at the beginning of the term. Where this is impossible the Laboratory Deposit and at least one-third of the tuition must be paid upon entering the class. The balance of tuition to be secured by note to be paid sixty days from date of matriculation.

Text Books.

Pharmacy—Caspari's, United States Pharmacopoeia.

Chemistry—Simon, Prescott, Sullivan, etc.

Toxicology—Reese, Taylor's Outlines, Blyth's Poisons, Brundage's Toxicology.

Materia Medica—Maisch.

Botany—Bastin's College, Gray's Structural Botany.

Physiology—Kirke's American Text Book.

Special Students.

Students may matriculate for any separate course. Medical students will find a systematic instruction in pharmacy an excellent foundation for a medical course. The instruction offered in this school of pharmacy will give a working knowledge of chemistry as it is applied in the engineering and metallurgical industries.

Employment.

The course of lectures has been so arranged as to permit those who desire it to devote a portion of their time to employment.

The Secretary will keep a register of students seeking such employment, and will give every assistance possible in procuring it for them.

Correspondence.

Letters of inquiry will receive careful and prompt attention. Address all communications to College of Pharmacy, care of 501 North Main Street, Los Angeles, Cal.

THE COLLEGE OF DENTISTRY

THE BOARD OF TRUSTEES.

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CALENDAR.

September 28—Saturday, Examination for removal of conditions.

October 1—Tuesday, Opening exercise in main lecture room, 8 p.m.

October 2—Wednesday, Lecture Session of 1907-8 begins.

October 11—Friday, Registration of Students closed for Lecture session of 1907-8.

November 27—Wednesday, Thanksgiving recess begins 6 p.m.

December 2—Monday, Thanksgiving recess ends 8 a.m.

December 20—Friday, Christmas recess begins 6 p.m.

January 2—Thursday, Christmas recess ends 8 a.m.

February 22—Saturday, Washington's Birthday recess.

April 17-18—Friday and Saturday, Easter holiday.

May 18—Freshman and Junior examinations begin.

May 28—Thursday, Commencement Exercises.

CURRICULUM.

The College of Dentistry, University of Southern California, is a member of the National Association of Dental Faculties, and is indorsed by the National Association of Dental Examiners, and placed in the new list of recommended schools, having adopted the advanced preliminary requirement for entrance.

A graded course of 32 weeks of six days each, exclusive of vacations, will be required of each year.

SCHEDULE OF STUDIES.

Freshman Year—Anatomy, dissecting, physiology, chemistry, chemical laboratory, dental anatomy, comparative anatomy, crown and bridge, operative technics, prosthetic technics, crown and bridge technics, histology general, histology dental.

Junior Year—Anatomy, dissecting, physiology, chemistry, organic; chemistry, inorganic; metallurgy, general pathology, materia medica, orthodontia, operative technic, operative dentistry, children's teeth; crown and bridge, dental materia medica, electricity, porcelain, prosthetic dentistry, prosthetic technics, crown and bridge technics, orthodontia technics.

Senior Year—Operative dentistry, prosthetic dentistry, oral surgery, bacteriology, dental pathology, dental materia medica and therapeutics, jurisprudence, ethics and hygiene, children's teeth, anaesthesia and extracting, porcelain.

DEPARTMENTS.

Operative Dentistry.

Professor Ford, Associate Professor Jordon, Dr. Boyd.

In the department of operative dentistry, the object is to develop the subject in a logical sequence from the fundamental principles in the freshman year up to the practical details of a general office practice in the senior year. The practical application in the infirmary of the theories taught in the lecture room is insisted on, and a large part of the senior lecture course consists in a study of the various defects and mistakes made by students in their infirmary work, to the end that the failures incident to a beginner may be corrected in college before the applicant presents himself to the public for patronage. Toward the close of the senior year the student, in his infirmary practice, is expected to study each case that is presented to him and in his own mind must decide as to the proper procedure to follow. After he has reached this decision he must call an instructor and state the results of his deliberations. His decision is then affirmed or corrected. This is done for the purpose of developing in the student the habit of individual study of his case, and also to teach him to exercise his own judgment, instead of relying always on the judgment of others.

In view of the increasing importance of the subject of inlays, a very thorough course of instruction will be given in this class of work. The advantages and limitations of inlays in general, and the indications for porcelain and gold inlays, together with their manufacture, will receive detailed and careful consideration. A true conception of the possibilities of inlays is necessary for the advanced dental practitioner of today, and this fact is recognized and met in the most practical manner in this course.

If qualified at the beginning of the second semester, Juniors are permitted to work in the Infirmary.

In connection with this department Professor Jordon will give a course of lectures on The Care and Management of Children's Teeth.

This course will consider pre-natal influences, and the nutrition and development of the child as relating to the teeth; the treating, filling and extraction of children's teeth; the disturbances found in the oral cavity incident to the first dentition, and the management of children in the office.

Anatomy.

Professor Murphy, Associate Professor Kirkpatrick.

Instruction in anatomy is given by means of lectures, recitations, quizzes and practical demonstrations on the cadaver throughout the entire year.

The dissecting room will be in charge of the demonstrators, who will personally superintend the work of the students and examine them upon their own dissections.

Physiology.

Professor Palette, Associate Professor Jenks.

The course of Physiology is given during the first and second year. The work consists in a systematic course of lectures, recitations and demonstrations.

The subjects of Cells and Tissues, Blood and the Circulatory System, are first taken up, and later the course is devoted to the study of the Alimentary Canal Excretory Organs, Nervous System, Organs of Special Sense, and Organs of Reproduction.

Histology, Dental Histology, Bacteriology, General Pathology.

Professor Leonard.

In our new laboratory, equipped with thirty-five new microscopes and every appliance and convenience, these depart-

ments are conducted in such a manner as to be of great benefit to a dental student. Histology and Dental Histology are given in the Freshman year, Pathology in the Junior, and Bacteriology in the Senior year.

Comparative Anatomy.

Professor Bebb.

This course covers a comparison of the teeth and surrounding tissues of a man with those of the lower order of animal life. This is made more interesting and instructive to the student by the collection of crania, numbering 1500 specimens, which our museum affords, and a complete series of lantern slides for illustrating the lectures.

Students are required to make drawings and to prepare and mount one or more specimens.

Operative Technics.

Professor H. Gale Atwater, Thos. A. Lynch, D. D. S.

This important department is given especial attention in our College, for we realize that the future success of the student, as well as the dentist, lies in first instructions.

It is our aim to make this department, one of the strongest in the college. The object of this course is to afford a thorough technical training in operative procedures, preparatory to practical work in the Infirmary; to develop manipulative skill and to give the students an intimate knowledge of the tissues upon which they are to operate, of the physical qualities and adaptation of the materials to be used, and facility in the use of instruments by systematized practice upon teeth out of the mouth.

Special attention will be given to a study of pulp chambers and root canals, their number, size, form, and their relation to the outer surfaces of the teeth. Sections of the natural teeth will be prepared by each student in such a manner that these features will be clearly shown.

The preparation of cavities and the manipulation of filling

materials, this will be made a special feature of the course and will consist of a thorough technical training in operative work. The student will construct models carrying tooth forms of natural size, upon which operations will be performed as in actual practice. This will consist in the preparation of cavities and a study of their classification and forms; the study of enamel and direction of cleavage on different parts of the crowns of the several teeth, with special reference to the best form and finish of margins of cavities for filling; the cutting of dentine and the various methods employed in anchoring fillings; the removal of carious tissue; the management of pits and fissures and the general shaping of the cavity. Instruction will also be given in the application of the rubber dam, the methods employed in gaining space, the use of clamps, wedges, separators, etc.

In conjunction with practice in cavity preparation, there will be a study of filling materials and their manipulation; the various filling materials in use and their physical properties, indications for their use and the relative value of each.

This course is designed to thoroughly ground the student in the principle of operative dentistry and prepare him to intelligently prosecute the practical work of the infirmary.

Dental Anatomy.

Professor Reed. G. Maurice Crow, D. D. S.

The first month is given mostly to the study of dental nomenclature, or the study of the names of things with which the student must become familiar in the course of his dental studies. Then descriptive human dental anatomy is taken up and the forms and surface markings of each tooth studied.

After a lecture and a recitation upon a particular tooth the student selects several of that denomination from a large number of promiscuous teeth and files at least one longitudinal and two transverse sections for the study of the pulp chambers and root canals, together with their relations to

the external surfaces of the tooth. This general plan is carried out with each tooth of the human mouth. In order that tooth forms may be more perfectly impressed upon the mind during the study, a carving of a tooth of each class, as the incisors, cuspids, bicuspid and molars, is made by each student in bone or ivory representing the actual size and form of the tooth.

Students are also required to model teeth in clay or wax and prepare cavities in the same.

Prosthetic Dentistry.

Professor Moody.

In this department the teaching embraces a systematic and well rounded course of didactic and practical instruction, which is in every way designed to be in keeping with the requirements of this highly important department of dental education.

Prosthetic Technics occupy four hours per day, three days in the week, during the freshman year, with one lecture per week. The lectures accompany and cover the processes undertaken in the technic laboratory for each week, the student performing under competent demonstrators the operations and using the materials and appliances described in each lecture. The course will begin with taking impressions of the mouth for partial and full dentures, using all of the various materials and appliances employed for that purpose. The manipulation of plaster of paris, preparing impressions, for securing models, model making, and separating from impressions, making trial plates, occluding and waxing teeth in position, investment of cases, description of vulcanizers and the processes of vulcanization, scraping, carving and polishing vulcanized cases, and methods of repairing vulcanite dentures, all of which will be illustrated by practical work performed by the student in the laboratory.

Making dies and counter dies for metal work, including preparation of model and making sand impressions, conforming metal plate to die, and swaging, trimming and fin-

ishing swaged plate, occluding and waxing teeth in position, backing, investing and soldering; also attachment of teeth with vulcanite. This will include full and partial dentures,

Making lower dentures of cast metal, including special preparation of model, waxing up, investing, casting and finishing cases.

It is the intention that this course shall render the student familiar with the various materials and processes used in prosthetic dentistry, train his hand in the performance of the mechanical work, and fit him for the more complex technic work and the practical prosthetic cases to follow in the second year.

The instruction in the second year includes one lecture per week, advanced technics and practical cases for patients. It begins with a review of taking impressions and the processes in vulcanite, the construction of gold plates, full and partial, and the working of aluminum in the making of cast plates and swaged plates, and the making of weighted dentures.

The Senior Year in Prosthetic Dentistry will be devoted more especially to infirmary practice, which will include the practical construction of the various plates of vulcanite, gold, aluminum, celluloid, continuous gum, etc., for patients. An advanced lecture course will also be given, occupying one hour per week, which will include new methods and appliances and reviews.

This College teaches the advantages of, and uses the anatomical articular exclusively.

Orthodontia.

Professor Robinson, James D. McCoy, D. D. S.

This subject is taught during the Junior and Senior years.

During the Junior year the course consists of a series of lectures illustrated by numerous lantern slides. Beginning with normal occlusion the lectures take up the different classes of mal-occlusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retention followed by a course in model and appliance making.

In the Senior year the instruction is entirely clinical and is given at the individual chair in the infirmary.

Crown and Bridge Work.

Professor Ford, Dr. Gray.

Crown and bridge work pertains both to the operative and the prosthetic, and yet it occupies such an important field of dentistry, that the College deemed it wise to make of it a separate department.

Students will receive a complete course in Crown technique as well as lectures during their Freshman year.

Juniors will receive a complete course in Bridge technique during the first semester, and will do practical work in the Infirmary during the balance of the year.

Seniors will perform practical work in the Infirmary. The principles of construction of all of the various forms of crowns and bridges at present in use will be taught, also a study will be made of the stress applied by the muscles of mastication to the teeth, both singly and collectively, with its bearing upon crown and bridge construction, including the conditions under which bridges should or should not be used.

This department is especially well equipped with large drawings of all descriptions, illustrating this branch. The clinical facilities are excellent, requiring Porcelain and Gold Crowns and Bridges.

Porcelain.

Professor Ford, Dr. Townsend, Dr. Goodman, Dr. Hopkins.

Porcelain, the coming work, is attracting more and more attention. It is the most artistic method of restoring teeth or parts of teeth. Cavities in the natural teeth can be filled with porcelain inlays, which cannot be detected.

Students of this school will be expected to attain a high degree of proficiency in the manipulation of porcelain. A

high conception of the artistic possibilities is essential to progress. The hand cannot construct what the mind cannot conceive, and mental conception of artistic and beautiful operations is stimulated by observation and thorough teaching.

This college pays special attention to the instruction of students in this department and a complete technique course is given throughout the Junior year in uses of high and low fusing Porcelain for Inlays, the construction of Porcelain Crowns and Bridges, continuous gum work and gold inlays. A special room is provided for this work with glass top benches, electricity for the furnace, and gas and compressed air for the low fusing bodies. The College is equipped with Townsend, Hammond and Custer electric furnaces and six Jenkins gas furnaces. Students are taught how to construct inlays by the use of gold and platinum matrices, the different blending of colors, and also a complete course of lectures is given covering the entire subject.

By the use of the Townsend forms we are able to give the students a great deal more technical instructions in porcelain crown and bridge work, than they ordinarily receive. One is not only taught how to use the facing, in connection with the frame work, but how to carve the entire crown, which is more artistic and stronger, not being divided by metal pins. The Seniors will do practical work in the Infirmary. Our clinic is from the class of people who call for the very best and latest class of operations, and each student is required to construct gold and porcelain inlays and porcelain crowns.

Chemistry.

Professor Beane.

First year—The course extends through the year, and consists of one lecture and two laboratory periods of two hours each per week. The first part of the year is devoted to Inorganic Chemistry. A careful study is made of the laws governing chemical action, and the properties of the ele-

ments and their compounds. Careful attention is given to the chemistry of the metals and all materials used in dentistry; also to the chemistry of anaesthetics. In the laboratory, practical instruction is given in qualitative and quantitative analysis. The student analyses some of the common amalgams and alloys. Organic chemistry is studied the last part of the year. Special attention is given to typical reactions and compounds of importance to the dental student.

Second year—The course in Organic and Physiological Chemistry extends through the first semester, and consists of lectures and laboratory work of two hours each per week. Special attention is given to the chemistry of the mouth, stomach and intestinal tract.

Metallurgy.

Professor Beane, Dr. J. S. Montague.

The course consists of lectures and practical laboratory work one hour each week during the second semester. A careful study is made of the history, structure and properties of the materials used by the dentist. Each student will be required to conduct experiments in the laboratory in melting, refining and alloying, as well as to make experiments in new alloys and compounds. Special attention is given to the analysis and compounding of amalgam alloys.

Surgery and Anesthesia.

Professor Lockwood, David D. Thornton, M. D.

The importance of this subject to the dental practitioner cannot be overestimated.

A dentist is recognized as an oral specialist. While he may not desire to undertake surgical operations, yet a lack of knowledge upon this subject will reflect upon his ability as a dentist in general.

The didactic work will be put to practice in the surgical clinic. The student will be called upon to assist in the performance of operations and care of patients during the pe-

riod of recovery. The use of both local and general anaesthetics will be considered, setting forth their use, as well as the conditions contra-indicating the employment of general anaesthesia.

Particular attention will be devoted to surgical diseases and injuries of the face, mouth, jaws and associate parts.

Professional Ethics and Hygiene.

Professor J. D. Moody.

Prof. Moody will deliver a course of lectures on these very important subjects. The personal and ethical conduct of the student before and after his graduation have quite as much to do in determining his standing and success in the community, as do his knowledge and technical skill.

Also, under direction of Professor Moody, a college Dental Society, for literary improvement, the writing, criticism and discussion of papers along professional lines, has been organized and carried through with excellent results.

Attendance at the society meetings is required .

Dental Pathology, Materia Medica and Therapeutics.

Professor W. C. Smith,

The instruction in this branch will consist of two lectures each week to the Junior and Senior students embracing a study of all pathological conditions of interest to the dental practitioner, together with a general application of the therapeutic agents indicated in the treatment of such conditions.

General Materia Medica and Therapeutics.

Professor T. C. Myers.

Professor Myers will give one lecture a week to the Junior and Senior classes.

A study of definitions, abbreviations, and terminology used, the nature of disease, the source of drugs in nature, preparations made from crude drugs, methods of administering medicines; agencies that modify their action; the art of prescribing

ing; general classification of drugs; their physical, chemical and poisonous properties, dosage and antidotes, and therapeutic application.

Special attention is given to those drugs that are most valuable in the practice of dentistry.

Dental Jurisprudence.

Eugene Overton, Esq.

The lectures on Jurisprudence include qualification and duties of expert witnesses, the importance of dental records, etc., as a means of identification, the limitations of dental practice, the qualifications required, and the liabilities incurred by those who administer anaesthetics, the penalties that may be suffered and the defense to be made in case of real or supposed malpractice, and the liability in case of real or supposed malpractice; the requirements of the California law and the laws of other States respecting the practice of dentistry, the steps necessary to become legal practitioners, the duties and liabilities of dentists with reference to the law, etc. This course will be followed by an examination at the end of the first semester.

Extraction and Anaesthetics.

Dr. A. A. Shaw.

This course embraces a series of lectures upon the principles and practices of extracting, together with the use of the various local and general anaesthetics. With a well equipped extracting room and abundant clinical material, the student is afforded ample opportunity of becoming skilled in this work. This course will be given in the Senior year.

Electricity.

Dr. Jarvis.

This course will consist of lectures on general electricity, and electric therapeutics, and also will be of great value to students in teaching them how to select and keep their electric appliances in proper condition.

Special Notice to Students.

Extract from Code of Rules of the National Association of Dental College Faculties:

"No college of this association shall give credit for a full course to students admitted later than ten days after the opening day of the session, as published in the announcement."

In case one is prevented by sickness, properly certified to by a reputable practicing physician, from complying with the foregoing rule, the time of admission shall not be later than twenty days from the opening day.

Candidates for admission will not be permitted to matriculate for any session other than that immediately succeeding the date of matriculation.

For matriculation in the Freshman Class without examination, the candidate must present a diploma of graduation from a literary or scientific college, a state normal school, a diploma of an approved high school having a four years' course, or a certificate from a preparatory or other school showing an equivalent education; and such certificate must be signed by the principal of the school issuing it, stating the studies pursued by the applicant, the extent to which, in each case, they have been covered, and the grade attained in each.

In lieu of such diploma or certificate, the applicant will be required to pass a matriculate examination, which shall be the equivalent of that forming the basis of the certificate of required preliminary education.

No student can be received who is not present within ten days after the opening day as announced in the bulletin, except in case of sickness, when ten days additional will be allowed.

Admission to Advanced Standing.

Extracts from rules of the National Association:

That advanced standing in the classes of members of this

association shall not be given to students except in the following instances:

First—Where a student shall have taken a full course in a school a member of this association, or one especially recognized, or graduation from a reputable medical college, he may receive one year's advance study.

Colleges of the association "may receive into the Junior and Senior classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or Junior years, respectively; this certificate is to be a pledge to any college to which they may apply that a previous year has been spent in the institution from whence they came."

Graduates of foreign dental schools are required to conform to the rules governing advanced standing, and to the ruling of the National Association of Dental Faculties that their credentials must receive the approval of the advisory board for their country before they can be accepted.

Requirements for Graduation.

1. The candidate for the degree of doctor of dental surgery shall be at least twenty-one years of age and of good moral character.

2. He shall have attended three full courses of lectures, of 32 weeks of six days each, exclusive of vacations, at some recognized and accredited dental school. The last course of which shall have been attended at this college.

3. He must have passed satisfactory written examinations by the faculty on the lecture curriculum, and earned a satisfactory rating as to attendance and practical work.

All operating, prosthetic and technic work must be done in the College Infirmary, or the College Building, and exclusively by the applicant for the degree.

Rules Governing Standing of Students and Examinations.

The grades will be made upon the scale of 100; the passing mark will be 75; attendance upon Infirmary clinics 90 per cent; lecture courses and laboratories 75 per cent.

GENERAL INFORMATION.

When a student is obliged to withdraw from the College before the last four weeks of a session for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the faculty, he shall be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction. This remission to date from the reception by the dean of a written notice of the student's withdrawal from the College.

Blank forms for application for admission will be sent by the dean on request.

All fees must be paid in advance for each session, unless special arrangements are made with the trustees. No student will be admitted for less than the stated fees.

All fees must be paid in full before the final examination may be taken.

There will be no return of fees by reason of suspension or expulsion.

The matriculation fee must be paid to the Secretary before the name of a student will be recorded.

With the exception of legal holidays, the Infirmary is open the year round. There is no extra charge for the summer clinical course. While not a requirement, it is advised that the students spend as much time of the vacation period as they possibly can in the actual practice of dentistry in the Infirmary. This course is very advantageous to the student, as it enables him to get in four solid months of practical work, without any interruption for lectures.

The College is not responsible for any personal losses of the students.

All fees due the College are paid to the secretary at his office in the Infirmary.

Laboratory benches and operating chairs are selected by students in the order of matriculation, and each student is required to occupy the same during the session.

Living expenses are about the same as through the Middle West and cheaper than on the Atlantic sea board. Arrangements can be made through the College for securing accommodations.

As far as possible students should have their mail addressed to their lodgings.

The faculty reserves the right to terminate the connection of any student with the institution at any time on the ground of what it may deem mental or moral unfitness for the profession, disorderly conduct, or failure to comply with the rules of the College.

The faculty will expel any student convicted of practicing dentistry illegally while under its jurisdiction.

The college reserves the right to change any of the foregoing regulations at any time it may be deemed expedient to do so.

Operations in the technic departments of the school require a large number of natural teeth, and a sufficient supply is sometimes difficult to get. Students will therefore find it to their advantage to bring all the extracted teeth they can obtain.

Alumni and friends of the college are requested to send to the College boxes of extracted teeth. The College will be truly grateful for such favors and will gladly pay all express charges on such packages.

PRIZES.

Four medals are competed for:

1. The Cave Medal is given to the student making the best piece of Prosthetic Technic work.
2. The Los Angeles Alumni Medal is given the Senior who has made the best average on theoretical work during the College course.
3. The Ford Medal is given to the student making the best piece of Porcelain Technic work.
4. The Atwater Medal is given to the student making the best piece of Operative Technic work.

The College of Law

OFFICERS.

Frank M. Porter, A. B., LL. B.

Dean.

Gavin W. Craig, LL. B.

Secretary.

BOARD OF CONTROL.

George F. Bovard, A.M., D.D.

George I. Cochran	Conservative Life Bldg.
Hartley Shaw, A.M.	City Hall
A. J. Wallace	327 W. Third St.
Nathan Newby, LL. B.	Wilcox Block
T. W. Robinson, A.M.	Law Library, Court House
Frank M. Porter, A.B., LL. B.	California Bank Bldg.

The College of Law of the University of Southern California is under the immediate supervision and control of the Board of Trustees of the University. It is managed by a Dean and a Secretary and a Board of Control, all appointed by the University Board of Trustees.

The College of Law is located in the Rindge Building, on the corner of Broadway and Third Streets, in the city of Los Angeles. This location is convenient to the Federal Courts, and the State Superior, Appellate and Supreme Courts. The rooms are well fitted up for the use of the students. They are heated by gas and lighted by electricity.

Object of the College.

The purpose of this college is to impart a sound and thorough legal education and to qualify students for admission to

practice in all the courts, not only of this, but of any other state, and in the Federal Courts.

All students entering the College of Law are entitled to four hours of instruction per week in the College of Liberal Arts without additional cost.

CONDITIONS OF ADMISSION.

I. Admission to Junior Class.

Applicants for admission to the Junior year must be at least 18 years of age; must furnish two certificates of good moral character; and must pass satisfactory examinations as herein-after prescribed, unless otherwise qualified to be admitted.

II. To the Freshman Class.

Graduates of high schools or other educational institutions whose course is equivalent to that of a high school course are admitted without examination. Certificates of graduation should be presented.

In special cases the Dean and Secretary have authority to admit an applicant who has not the required educational qualifications. Such admission, however, is conditional upon the applicant making up such deficiency before graduation.

III. To Advanced Standing.

Applicants for admission to the Middle or Senior classes must present certificates of the completion by them of work equivalent to that for which they seek to be credited, or pass regular examinations upon such subjects. Certificates will be accepted when issued by other colleges of law whose requirements are as high and whose course is as extensive as that here given. Applicants for advanced standing not having such certificates must pass the same examinations as applicants for admission to the Junior year.

COURSE OF INSTRUCTION.

Attention is called to the fact that courses are given in Briefing and the Use of Books. In addition to the briefs re-

quired in Moot Court work the members of the Faculty assign subjects for briefs in connection with their respective classes.

The course of study covers a period of three years. The degree of LL. B. is conferred by the University of Southern California on all graduates of this department.

All regular students of the law department are entitled to four hours of instruction per week in the College of Liberal Arts without additional cost.

The method of instruction is a combination of the lecture, text book and case systems, with practical experience in briefing and pleading.

CURRICULUM.

In addition to the following, special lectures are provided during the year upon subjects which though not really required in a legal course, are yet of much value to those desiring a well-rounded knowledge of the law.

Unless otherwise specified the method of instruction is by textbook and selected cases.

FIRST YEAR.

First Semester.

Contracts	Lewis R. Works
Two Periods	
Criminal Law	Grant R. Bennett
Two Periods	
Elementary Law and Blackstone	Gavin W. Craig
Two Periods	
Torts	Gavin W. Craig
One Period	
Bailments	Frank M. Porter
Two Periods	
Use of Books	T. W. Robinson
Briefing	T. W. Robinson

Lectures, One Period

Second Semester

Contracts	Lewis R. Works
One Period	
Criminal Procedure	Frank R. Willis
Penal Code and Selected Cases, One Period	
Damages	Claire S. Tappaan
One Period	
Torts	Gavin W. Craig
Two Periods	
Domestic Relations	Frank M. Porter
Two Periods	
Elementary Law and Blackstone	Gavin W. Craig
Two Periods	
Personal Property	Frank M. Porter
One Period	
Negligence	Wm. P. James
One Period	

SECOND YEAR

First Semester.

Agency	Lewis A. Groff
One Period	
Wills	Curtis D. Wilbur
One Period	
Common Law Pleading	H. C. Dillon
Two Periods	
Private Corporations	J. Wiseman MacDonald
One Period	
Real Property	Gavin W. Craig
Two Periods	
Commercial Paper	W. C. Petchner
One Period	
Equity Jurisprudence	Grant R. Bennett
Two Periods	
Constitutional Law	W. A. Cheney
Lectures and Selected Cases, One Period	
Moot Court, One Period	

Second Semester

Private Corporations	J. Wiseman MacDonald
One Period	
Wills	Curtis D. Wilbur
One Period	
Equity Jurisprudence	Grant R. Bennett
Two Periods	
Real Property	Gavin W. Craig
Two Periods	
Commercial Paper	W. C. Petchler
One Period	
Partnership	Sam L. Baker
One Period	
Justice Court Practice	Gavin W. Craig
Code of Civil Procedure of California and Lectures	
One Period, Part of Semester	
Patents	James R. Townsend
Lectures, One Period, Part of Semester	
Statutory Interpretation	T. W. Robinson
One Period	
Constitutional Law	W. A. Cheney
One Period	
Lectures and Selected Cases, One Period	
Moot Court, One Period	

THIRD YEAR**First Semester**

Code Pleading	Lewis R. Works
Two Periods	
Real Property	George H. Woodruff
Two Periods	
Evidence	Frank M. Porter
Three Periods	
Public Corporations	Walter F. Haas
Two Periods	
Equity Pleading (omitted 1906-1907)	
One Period	
Water Rights	Wm. M. Hiatt
One Period	
Federal Practice	Walter M. Rose
One Period, Part of Semester	
Extraordinary Legal Remedies	Grant R. Bennett
One Period, Part of Semester	

Second Semester

Code Pleading	Lewis R. Works
Code of Civil Procedure and Text Books, Two Periods	
Real Property	George H. Woodruff
Two Periods	
Evidence	Frank M. Porter
Three Periods	
Mines	W. C. Petchner
One Period	
Insurance Law	Seward A. Simons
Eight Lectures	
Bankruptcy	W. T. Craig
Five Lectures	
California Lien Law	Frank James
Five Lectures	
Appeals	J. W. Swanwick
Three Lectures	
Admiralty	E. W. Tuttle
Six Lectures	
Advocacy	Earl Rogers
Six Lectures	
Legal Ethics	John D. Pope
Three Lectures	
Quiz Class	
Two Periods, Part of Semester	
Moot Court	
One Period	

Attendance at ninety per cent. of the lectures and recitations is required for promotion or graduation.

Examinations are given at the end of each semester. A grade of seventy-five per cent. on examinations and daily work, in each subject, is required for promotion or graduation.

Persons who are not studying for a degree may enter the College of Law at any time as special students and may pursue such studies as they desire. This provision is made especially for the aid of those seeking or holding positions of trust in banks and other business institutions.

PUBLIC SPEAKING, VOICE BUILDING AND EXPRESSION.

A course in Public Speaking, Voice Building and Expression will be offered by Miss Beulah Wright, Dean of the College of Oratory, University of Southern California.

The course is designed to meet the needs of the students of the Department of Law. The work is of the most practical character.

It is the aim to teach a student to be simple and natural in his expression, and when occasion shall demand, powerful, but at all times to preserve his individuality. A great deal of stress is laid upon the development of the voice for purity, flexibility, and control.

Most of the work done in classes is of an extemporaneous nature, such as short talks on current public questions, argumentation and debate. Attention is also given to the study and delivery of great orations, as well as the preparation of original orations.

Students doing work in these classes may receive credit in the College of Oratory to apply upon either the Diploma Course or the Certificate Course. It is possible for a student to complete one of these courses during his three years work in the College of Law.

COURTS.

The Supreme Court of the State holds two sessions each year in Los Angeles, and the students have opportunity to hear carefully prepared arguments by some of the ablest lawyers of the country.

The United States Circuit and District Courts are held here, and opportunity for study of the Federal practice and procedure is thus offered, on both law and equity sides.

The Appellate Court for the Southern District of California holds its sessions in Los Angeles.

The Superior Court of Los Angeles County, consisting of nine departments, is in session the entire year.

Three city Police Courts and two Township Justice's Courts, in which students in the Middle and Senior years

can get some actual practice before admission to the bar, are in session daily during the entire year.

ADMISSION TO THE BAR.

Graduates of the University of Southern California, College of Law are admitted to the bar upon motion and without examination.

LIBRARY.

Students are allowed the use of the Los Angeles County Law Library, consisting of fifteen thousand volumes, upon the same terms as members of the bar.

The College of Law has a fair working library of its own, consisting of reports and text books.

MOOT COURTS AND DEBATING CLUBS.

Students of the Second and Third years are assigned not less than four cases during each semester, which they are required to conduct through the Superior Court, and one of which must be taken up on appeal through the Appellate or Supreme Courts. Controversies are arranged and assigned upon statements of fact for trial. All necessary pleadings are drawn, process is issued, and when all the issues of law have been disposed of cases are tried upon the issues of fact; this involves all of the incidents of a contested trial. Students of the First and Second years act as witnesses, clients and jurors. These trials are presided over by a member of the Faculty and are conducted as nearly as possible in the same manner as trials in actual courts. Each student in the First and Second years must write at least three briefs, which are examined and graded by the Faculty.

Students in the second and third years are required to attend seventy per cent. of the Moot Court sessions.

Debating clubs are under the supervision of the College and attendance at seventy per cent. of their meetings is compulsory on all regular students of the Freshman Class. The Freshman club is under the supervision of Miss Beulah Wright, Dean of the College of Oratory.

SCHOLARSHIP CONTEST.

A scholarship is given annually to the high school graduate writing the best thesis. Full information concerning this contest may be secured by addressing the Secretary.

Roger C. Dutton, of Fernando High School, won this scholarship for the year 1905-1906, and Chas. E. Williams for the year 1906-1907.

EASTERN STUDENTS.

An increase in the number of Eastern students attending the University of Southern California is noted and expected. An opportunity is afforded to spend a few years in Southern California and at the same time fit oneself for the practice of law. Those intending to practice in common-law states should notice that an entire year is devoted to the study of common-law pleading. It is the aim to fit the graduates of this college to practice law in any state.

FEES AND EXPENSES.

An entrance fee of \$10 is required upon registering.

Tuition fees are \$35 per semester, or \$60 per year, if paid in advance, at the beginning of the college year.

Fees for Classes in Expression.

Fees for tuition in Public Speaking, Voice Building and Expression are \$10 per semester, or \$17.50 per year in class. These classes occupy two periods of 45 minutes each per week.

The tuition charged for private lessons is as follows:

One lesson per week (45 minutes)	\$25.00
Ten lessons (45 minutes)	15.00
Single lessons (45 minutes)	2.00

ROOMS AND BOARD.

Students on arriving at Los Angeles can obtain information in regard to rooms and board by calling at the office of the Secretary of the Law College.

Although the School cannot agree to secure students positions in offices, yet it will assist those who desire to make such arrangements, and it may be here stated that ordinarily no serious difficulty is experienced in finding such opportunities.

Those desiring further information relative to the College of Law may obtain it by writing for its special Announcement. Address all communications:

University of Southern California
College of Law,

Rindge Building, Los Angeles. Cal.

Frank M. Porter, Dean. Gavin W. Craig, Secretary.

The College of Music

THE COLLEGE OF MUSIC.

General Statement.

The musical department of the University was founded twenty-one years ago. By a faithful adherence to high standards its faculty have brought it to a well recognized position in higher musical education. Its diplomas have all the prestige which comes from its long establishment and the name of the University. Its graduates and former students are taking prominent places in the musical world all over the Southwest, both as teachers and performers.

The College of Music offers extensive courses in nearly all departments of musical instruction, and is designed to fit students for the profession, as composers, theorists, artists and teachers. It also provides for the study of music as a part of general culture or as an accomplishment.

Its unusually strong faculty, including some of the most widely known teachers in the Southwest, and its thorough courses of instruction, beside its location in connection with the University make it an ideal school. Its aim is to make well-grounded musicians and not mere performers.

The general spirit of earnest study characteristic of an institution of higher learning such as the University has been found to react very beneficially on the student of music, who, too often, is inclined to superficiality. Breadth of character and liberal ideas are more surely attained in the atmosphere of general education than in that of specialized study.

Advantage of College Study.

Among the many points of superiority of college study in music may be mentioned the regular attendance at lessons required, the musical atmosphere created by the recitals, lectures and class work, the opportunity given for obtaining in

class work at very slight expense, the very best of training in the theoretical studies, such as harmony, theory and history of music—studies which are essential to the well-grounded musician and which the private teacher can not touch upon in the lesson hour.

Equipment.

The College of Music occupies the South wing of the main building. It is 108 feet long by 44 feet wide, substantially constructed of brick with plastered exterior. The interior is thoroughly modern and artistic in finish and furnishings. It contains a commodious and elegant reception hall, also cloak room and lavatories, lecture hall and recital hall, and a large number of exceptionally large and attractive studios. Nothing superior to it in the way of a music school home can be found in this section.

The school is equipped with a full complement of teaching and practice pianos. The pipe-organ in the college chapel is used by students for practice. It is blown by electric motor and the charge for rental is no more than blower's fees would be in an organ blown by hand.

Recitals.

A feature of the greatest value to the students is the fortnightly pupils' recitals, at which the pupils are expected to play or sing before the whole school, as their teachers may direct. Public performance is an art in itself, and can only be mastered by many public appearances. Pupils who acquit themselves creditably at the recitals before the music students only, are allowed to appear at the public recitals of the school. Pupils thus have the opportunity to hear and become familiar with the music of the other departments. Recitals are also given by the faculty from time to time and also a regular course of lectures and lecture recitals on musical history and other topics. Music students have free admission to all public exercises of the school.

Diplomas.

The diplomas of the University are given at the completion of the Normal and Collegiate courses.

The requirements for graduation in any department are the completion of the prescribed course in that department, at least one year's work in which must be done in this school; the completion of the Normal course of three terms in harmony, one term in musical theory and one term in musical history, and the public performance during the senior year of an entire program under the direction of the department teacher.

Organ students will also be required to take the term of "keyboard harmony." Vocal students are required to take one year of piano work.

Teachers' Certificates.

Teachers' Certificates will be given to those who have completed the work of the Normal course, but who for any reason are unable to give the public recital required for graduation.

The Course of Study

The educational system of the school is divided into three general departments: the Preparatory, the Normal, and the Collegiate.

The Preparatory department is open to all persons above seven years of age, with or without any previous knowledge of music. It is intended to prepare for the Normal, and also to meet the wants of those who have not the time or the inclination to enter upon an extended course but who desire the best possible instruction during the time they may devote to this study.

The Normal department is designed for students preparing for the profession as teachers, and for amateurs desirous of obtaining a thorough training in the art and science of music.

The Collegiate department is open to all who have taken the Normal.

THE DUNNING SYSTEM.

The Dunning System of instruction for beginners has been introduced the last year.

The system is a simple, entertaining, yet thoroughly practical method of instruction which develops the child musically

and mentally. As he advances, he becomes an intelligent musician, which means much more than to say he is a performer on an instrument. Each topic is anticipated and presented in such a manner as to make it comparatively easy. The first work is done most effectively in class, insuring interest, regularity and spontaneity.

The rudiments of music are taught by means of symbols, disks, time sticks, movable characters, etc.

The mind is quickened by mental drills; the eye by various exercises, is trained to act quickly and accurately; and the ear is trained by aural exercises.

Musical principles are imparted in pleasing songs, stories and verses.

Interesting games illustrate principles taught, and fasten them in the mind of the student.

Fingers, wrist and arm are prepared for work at the piano by rhythmic movements and table technique, all performed to delightful little songs.

Marches and drills cultivate the sense of rhythm.

Practice in writing music is given, for music as a language must be written as well as interpreted.

Piano work puts to practical use knowledge as soon as gained. By pictures and verses, pupils become familiar with the lives of the great composers, and a taste for their compositions is cultivated.

COLLEGE CREDITS.

Credits will be given in the College of Liberal Arts for musical work as follows:—Two semester hours per term will be credited to students making passing grade in any one of the theoretical studies or advanced vocal or instrumental work, the total credits in any case not to exceed eight.

BUSINESS REGULATIONS.

Students entering after the opening of the term will register for the remaining portion, and will be charged pro rata. The work of the term begins on the date advertised, and stu-

dents who enter late will find themselves behind their classes.

Students taking less than one-half term in class work will be charged for the half term; those taking more than a half term will be charged for the full term.

All students are required to attend the regular recitals of the school and to take part in them whenever so assigned.

No deduction will be made for occasional absence from lessons. Lessons missed will be made up to pupils, if notice of the intended absence is given at the previous lesson.

Lessons falling on national holidays are not lost to students.

Sheet music will be furnished students at teachers' rates, if paid for on delivery.

A discount of fifteen per cent. is allowed to the children of Methodist ministers. This discount applies to vocal and instrumental work only.

TUITION FEES, by Semester, 19 Weeks.

MAKE ALL CHECKS PAYABLE TO THE DEAN.

Fees are Payable at the OFFICE ONLY, Monthly in Advance.

Voice, Mr. Walker, two lessons per week, of 30 minutes each	\$76.00
Voice, Mr. Walker, one lesson per week, of 30 minutes each	38.00
Voice, Miss Curl, one lesson per week, of 40 minutes each	47.50
Voice, Miss Curl, two lessons per week, of 40 minutes each	76.00
Voice, Miss Curl, daily lessons, 40 minutes.....	\$30 per Mth.
Piano or Pipe Organ, Mr. Skeelee, two lessons per week, 45 minutes	95.00
Piano or Pipe Organ, Mr. Skeelee, one lesson per week, 45 minutes	47.50
Piano, Mr. Skeelee, two lessons per week, 30 minutes.	76.00
Piano, Mr. Skeelee, one lesson per week, 30 minutes..	38.00

Piano, Mrs. Brimhall, two lessons per week, 45 minutes	57.00
Piano, Mrs. Brimhall, one lesson per week, 45 minutes.	28.50
Piano, Miss Trowbridge, two lessons per week, 45 minutes	47.50
Piano, Miss Trowbridge, one lesson per week, 45 minutes	23.75
Piano, Miss Arnett, two lessons per week, 45 minutes..	38.00
Piano, Miss Arnett, one lesson per week, 45 minutes..	19.00
Dunning System, Miss Patton, in classes 4 to 6, 1 hour.	28.50
Dunning System, Miss Patton, private lessons, 30 minutes	19.00
Violin, Mr. Pemberton, two lessons per week, one hour	76.00
Violin, Mr. Pemberton, one lesson per week, one hour.	38.00
Violin, Mr. Seiling, 2 lessons per week, 45 minutes...	95.00
Violin, Mr. Seiling, 1 lesson per week, 45 minutes....	47.50
Violin, Mr. Seiling, two lessons per week, 35 minutes..	76.00
Violin, Mr. Seiling, one lesson per week, 35 minutes...	38.00
Harmony and Theory, Mr. Pemberton, private lessons, one per week	28.50
Harmony and Theory, class lessons, two per week.....	15.00
Rental of Pipe Organ, one hour each day, including blowing, per term	17.10
Rental of Pipe Organ, two hours each day, per term.	28.50
Rental of Piano, one hour each day, per term.....	4.00

For further particulars, address W. F. Skeeel, Dean, Wesley Avenue and West 37th Street; Residence Phone, C 9368.
Telephone Home B 3441.

The College of Oratory

The system used in the College of Oratory is based upon the Cumnock Method, founded by Robert McLean Cumnock, L.H.D., Director of School of Oratory, Northwestern University, Evanston, Illinois.

The aims of our school are:

To develop the inner man.

To prepare the body to express the inner man.

The method is neither imitative nor mechanical but is founded upon psychological principles.

The pupil acquires the power to interpret for himself and to express emotions through his own individuality. The result is a naturalness and simplicity of manner together with personal power.

A great deal of attention is paid to the Department of Public Speaking. Ministers, theological students, or any who may have occasion to address audiences, will find this work of great value.

COURSES OF STUDY.

(Class Work.)

Course 1. Fundamental principles of expression, English phonation, enunciation, interpretation of selections from Cumnock's Choice Readings. **Two hours, first semester.**

Course 2. Voice building, breathing, tone placing, bodily expression, interpretation of selections from Cumnock's Choice Readings. **Two hours, second semester.**

Course 3. Interpretation from modern writers: Kipling, Barrie, Van Dyke, Riley, Kate Douglas Wiggin, Maclaren, Dunbar and others. **Two hours, either semester.**

Course 4. A study of Lyric Poems: Wordsworth, Browning, Tennyson, Burns, Lanier, Arnold, Dickens, and others. **Two hours, either semester.**

Course 5. Voice, Relaxation, Concentration, Breathing, Tone Placing, Rhythm, Phrasing. **Two hours, one semester.**

Course 6. Debate and Extemporaneous Speaking. **Two hours, either semester.**

Course 7. Oratory, Bible and Hymn Reading. Sears' History of Oratory and Modern Eloquence. Curry's Vocal and Literary Interpretation of the Bible. **Two hours, either semester.**

Course 8. Shakespeare: Julius Caesar, Macbeth, or Hamlet; As You Like It; Two Gentlemen of Verona, or Much Ado About Nothing. **Two hours, either semester.**

Course 9. Artistic Anatomy. A summary of Anatomy intended for the study of forms, attitudes and movements. **Two hours, first semester.**

Course 10. Repertoire, abridgement of books and classics for public presentation, arrangement of programs, impersonation. **Advanced students only, two hours, second semester.**

Assembly. All private pupils meet with the Dean to pursue a course in the Art of Expression. **Two hours, both semesters.**

Shakespeare Club. Interpretation and presentation of the drama. A study of dramatic law. **Two hours, both semesters.**

DIPLOMA COURSE.

The work required in this course consists of: Three years of private work, two lessons per week; the ten courses; Assembly; Shakespeare Club; one years advanced Physical Training in addition to the two years required Gymnasium work; College work sufficient to enroll a student as a Junior in the College of Liberal Arts.

CERTIFICATE COURSE.

The required work in this course consists of: Two years of private work, two lessons per week. Courses 1, 2, 3, 5, 9, and 10, and two of the remaining four courses to be elected; Assembly; Shakespeare Club; two years of Physical Training; History, and not less than two years of English. It is possible for a student to complete this course in two years.

RECITALS.

Pupils' recitals are given every two weeks, on Wednesday at 3:40 p.m., in the Athena Literary Hall. The participation in these recitals by students is required that the student may have practice and gain confidence in appearing before audiences. All students enrolled in the school are expected to be present at each recital. Admission to friends is by card.

Faculty recitals are given each semester by the instructors in the school, or by artists from the outside.

PHYSICAL EXPRESSION.

"Is not that the best education which gives to the mind and to the body all the force, all the beauty and all the perfection of which they are capable?"—Plato.

Special classes in Physical Culture are conducted for the Oratory students. The laws which underlie Physical Expression are here studied and such exercises are given as will best develop the pupil toward health, expressiveness of movement and grace. It is the aim of this work to bring the body under perfect control of the will, and to teach the principles of gesture in such a manner as to give spontaneity and freedom from affectation.

A Normal Course in Physical Education has been arranged to meet the needs of those desiring to teach this work. The course includes Hygiene, Physiology, Anatomy, Voice Building, Gymnastics, Athletics, Physical Culture and Practical Teaching.

CHILDREN'S DEPARTMENT.

This course is planned for children under twelve years of age. Classes are organized in expression, where the children are trained in common reading and in the delivery of recitation.

Classes are also formed in Physical Culture, where children are taught correct breathing, standing, walking, sitting, and ease and lightness of movement. Exercises are given to correct individual faults of body, such as round shoulders and hollow chests.

TUITION.

(Fees are payable to the Dean in Advance.)

Instruction per semester (18 weeks).

Full course, including two private lessons per week,

Physical Training, Assembly one or more classes in

Expression and English \$60.00

Two private lessons per week (30 minutes) 50.00

One private lesson per week (30 minutes) 25.00

A Course of ten lessons (30 minutes) . . . \$15.00 to 20.00

Single lessons (30 minutes) \$1.00 to 2.50

Class, two periods per week (50 minutes) 10.00

Dramatic Club 8.00

Coaching Plays (60 minutes) \$1.00 to 2.00

Assembly, (2 hours per week) 15.00

Physical Education.

Full Normal Course \$35.00

One private lesson per week (30 minutes) 20.00

Children's Department.

Two private lessons per week, Expression (30 minutes) \$35.00

One private lesson per week, Expression (30 minutes) 20.00

Class Expression, Course of 15 lessons 5.00

Class Physical Culture, Course of 15 lessons 3.00

A discount of ten per cent. on all private work will be given to Ministers.

The diploma fee is \$10.00.

The certificate fee is \$5.00.

A student in the College of Liberal Arts may elect a maximum of sixteen semester hours in the College of Oratory. See Page 55.

UNIVERSITY OF SOUTHERN CALIFORNIA

COLLEGE OF ORATORY,

Thirty-sixth Street and Wesley Avenue.

Miss Beulah Wright, Dean.

The College of Fine Arts

The College of Fine Arts, which has now become the largest, best equipped and most efficient art school in the west offers several courses adapted to the varying needs of specialists and the changing industrial conditions of our times.

The full three years course covers all the branches usually taught in art schools and fits the student for the position of supervisor of drawing in public or private schools or the practice of art, professionally.

Latterly the application of art to all lines of industrial effort has opened up many new avenues of profitable employment to the artist and many students are taking up special lines of work in order to meet this demand.

Illustrating is one of the most attractive branches of art and one of the most profitable to the expert, but there are already too many untaught and incompetent illustrators in the market. The course in illustrating is thorough and complete, embracing the technique of charcoal, pencil, pen and brush work, anatomy, the principles of design and composition.

Architectural drawing is also a readily available mode of industrial art much in demand at present, especially in the branch of perspective. This course embraces mechanical drawing, building construction, perspective, wash drawing and water color.

Designing is a wide open field, applied in modern industrial methods to almost every article of manufacture. The course in design covers mechanical drawing, composition, the history and principles of ornament, color harmony, and the constructive requirements of fabrics, glass work, fictile products, metal work, etc.

Pottery has recently come into great vogue as a mode of art expression and it seems a revelation to the public that ceramic work is within the reach of the ordinary student. The truth is that pottery is comparatively easy in its simpler

forms and even in some of its more complicated forms is attainable by ordinary industry and intelligence. This course includes clay modelling, the potter's wheel, moulding, glazing, firing, underglaze painting and the principles of color harmony and design.

There are certain advantages in a large school like this which are usually overlooked but which nevertheless are of enormous value to the student. Among these are the stimulus created by the presence of the various lines of art activity going on at the same time and the enthusiasm produced by the continual production of practical, successful work by advanced students. This is the much desired art atmosphere, an education in itself, an asset of the large and successful school which no other environment can supply.

Owing to its superb location and perfect adaptation to its purpose, this school offers more advantages in the way of convenience, comfort, salubrity, outlook and abundance of painting material than any other art school west of Cincinnati.

The college buildings overlook the most beautiful section of the famous Arroyo Seco and the wide expanse of the San Gabriel valley. From its corridors may be seen the whole range of the Sierra Madre mountains; vistas of live oak, pepper, and eucalyptus trees lie in every direction; within a stone's throw a perennial stream meanders through groves of sycamore and water beech.

The school contains a large lecture room and exhibition gallery, six large, light, dry well-ventilated studios, store rooms, cloak rooms, wash room, lockers, and every necessary convenience. In short, it is a thoroughly equipped modern art school.

The full college course includes Mechanical Drawing, Projection, Perspective, Free-hand Drawing, Painting in Water Color and Oil, Art History, Mythology, Sacred History and Anatomy. The Course covers three full years' work and entitles the student to a diploma on passing the required examination.

Diplomas and other honors are conferred by the University of Southern California, with which institution the College of Fine Arts is affiliated.

Special branches may be taken separately from the course, and certificates of proficiency will be granted on passing the required examinations.

There are classes for men and women in Drawing, Clay Modelling, Painting in Oil and Water Color, Illustrating for books and newspapers, Designing, Architecture, Pottery, etc.

At the College of Liberal Arts in the University building, classes are conducted under the same instructors in Mechanical Drawing, and Free-hand Drawing.

Credits for work done in other schools or colleges will be allowed when satisfactory proficiency is shown.

Frequent competitions are open to advanced students, entitling the winners to certain school privileges.

A Summer School is maintained during the vacation month for the convenience of teachers and others who cannot attend the regular sessions.

Rooms with or without board, may be obtained in the neighborhood at very moderate rates.

Admission of Students.

No examination is required for entering the primary classes in any branch.

For the advanced class an example of work must be submitted showing the student's fitness.

Students may enter the school at any time during the school year.

Terms.

All fees payable in advance.

6 Lessons per week,	\$11.00 per month
5 Lessons per week,	10.00 per month
3 Lessons per week,	6.00 per month
2 Lessons per week,	5.00 per month
1 Lesson per week,	3.50 per month

Single Lessons, each	\$ 1.00
Private Lessons, each	2.00
Full Collegiate Year	75.00
Per Semester	40.00

No charge is made for models, lockers, boards, easels, etc. Materials are furnished to students at wholesale rates.

Lecture Courses.

Free to enrolled students.

Artistic Anatomy	\$10.00 per year
Art History	10.00 per year

Classes.

Life Class—Every morning.

Portrait Classes—From draped model, Tuesday and Thursday.

Out-door Sketching—Every day.

Anatomy Lecture with demonstrations from skeleton and life.—Wednesday afternoon.

Art History Lecture with blackboard and other illustrations.—Monday afternoon.

The Preparatory School

CALENDAR 1906-1907.

1907			
Sept.	16	Monday	} Entrance examinations and registration for First Semester
Sept.	17	Tuesday	
Sept.	18	Wednesday	Instruction begins
Nov.	28	Thursday	} Thanksgiving Vacation
Nov.	29	Friday	
Dec.	18	Monday	} Christmas Vacation
1908			
Jan.	1	Wednesday	} Day of Prayer for Colleges
Jan.	30	Thursday	
Jan.	31	Friday	} Mid-year examinations
Feb.	5	Wednesday	
Feb.	5	Wednesday	First semester ends
Feb.	6	Thursday	} Entrance examinations and registration for Second Semester
Feb.	7	Friday	
Feb.	10	Monday	Instruction begins
Mar.	30	Monday	} Spring Vacation
April	5	Tuesday	
May	30	Thursday	Memorial Day
June	11	Thursday	} Final examinations
June	16	Tuesday	
June	17	Wednesday	Graduation exercises.

GENERAL STATEMENT.

The Preparatory School is maintained in connection with the College of Liberal Arts. The classes are instructed either by the College professors, or by teachers under their supervision. The students enjoy all the general advantages open to students in the College, including library, lectures, laboratories, religious and social privileges.

While the work of this school is mainly that of preparing students directly for the College yet without lessening the work in this direction, the authorities realize the importance of giving increased attention to the large number of young people who desire academic instruction, but do not wish to

devote the necessary time and means to secure a collegiate education. For this large and worthy class, the school purposes to provide sufficient facilities, so that in the limited time at their command they may acquire some preparation for their future work.

Requirements for Admission.

Applicants must have finished work equivalent to that required for admission to the high schools. They must show evidence of fitness to begin the work of the classes in the school. Persons who wish to take a partial course, or to select their studies, can enter the preparatory school without a formal examination, and pursue such subjects as they may be prepared to take.

Registration.

The method and regulations in registration are the same as those in the College (page 32).

Absence from Exercises.

The rules and regulations concerning absences from required exercises are the same as in the College (see pages 34-35).

Reports.

Reports of standing are sent to the parent or guardian of each student each month. The Faculty desire the co-operation of parents in their efforts to maintain a high grade of scholarship and deportment.

Graduation and Diplomas.

The Preparatory School has a special evening set aside in commencement week for its graduation exercises.

Each student who completes one of the regular courses of study will be granted a diploma.

Literary Society.

The Webster Literary Society is composed of young men who meet each week for training in public speaking.

The Willard and Annesley Literary Societies are composed of young women who meet each week for training in literary work.

COURSES OF STUDY

The regular courses of study are four in number, any one of which is designed to prepare students to enter the College of Liberal Arts, or institutions of similar standing. A student who has completed one of these courses is admitted to the College without examination.

	A	B	C	D
FIRST YEAR	5 English 5 Latin 5 Algebra 2 Expression 2 Physical Training	5 English 5 Latin 5 Algebra 2 Expression 2 Physical Training	5 English 5 Latin, French, Spanish* 5 Algebra 2 Expression 2 Physical Training	5 English 5 Latin, French, Spanish* 5 Algebra 5 Drawing 2 Physical Training
SECOND YEAR	5 English 5 Latin 5 Ancient History 5 Greek 2 Physical Training	5 English 5 Latin 5 Ancient History 4 Zoology or Botony 2 Physical Training	5 English 5 Latin, French, Spanish* 5 Algebra 4 Zoology or Botony 2 Physical Training	5 English 5 Latin, French, Spanish* 5 Algebra 5 Drawing 2 Physical Training
THIRD YEAR	5 English, Zoology, Botony 5 Latin 5 Plane Geometry 5 Greek	5 English 5 Latin or Algebra 5 Plane Geometry 5 German	5 English 5 Chemistry 5 Plane Geometry 5 German	5 English 5 Chemistry 5 Plane Geometry 5 German
FOURTH YEAR	5 American History, Civics 5 Latin 5 Physics 5 Greek 1 Algebra Lectures (elec)	5 American History, Civics 5 Latin or Mathematics (A)† 5 Physics 5 German 1 Algebra Lectures (elec)	5 American History, Civics 4 Zoology, Botony or Mathematics (A)† 5 Physics 5 German 1 Algebra-Lectures	5 American History, Civics 4 Mathematics (A)† 5 Physics 5 German 1 Algebra-Lectures

NOTE:—The figures denote the number of class recitations (or their equivalent in laboratory work and drawing) per week.

*In courses C and D the language chosen in the first year must be continued in the second.

†Mathematics (A) includes Solid Geometry, Trigonometry and a review of Algebra.

DEPARTMENTS OF INSTRUCTION.**ENGLISH.****First Year.****First Semester.**

1. **Review of Technical Grammar.** One hour a week.
2. **Gayley's Classic Myths.** One hour a week.
3. **Classics.** Three hours a week.

Scott: The Lady of the Lake.

Carlyle: Essay on Burns.

Lowell: Vision of Sir Launfal, Commemoration Ode.

Second Semester.

1. **Rhetoric and Composition.** One theme a week.
Special attention to paragraph-structure.
2. **Gayley's Classic Myths.** One hour a week.
3. **Classics.** Three hours a week.

Sir Roger De Coverley Papers.

Shakespeare: Merchant of Venice.

George Eliot: Silas Marner.

Second Year.**First Semester.**

1. **Composition.** One theme a week. Special attention to rhetorical structure.
2. **Rhetoric.** Gardiner, Kittredge and Arnold. One hour a week.
3. **Classics.** Three hours a week.

Scott: Ivanhoe; Lectures on the Development of the Novel.

Coleridge: The Ancient Mariner; Comparative Study of the Folk-Ballad.

Milton: L'Allegro, Il Penseroso.

Second Semester.

1. **Composition:** One theme a week; Exposition. Special attention to unity, clearness, force and emphasis.
2. **Painter's Elements of Criticism.** One hour a week.
3. **Classics.** Three hours a week.

Macaulay: Essay on Warren Hastings.

Shakespeare: Julius Caesar.

Tennyson: Idylls of the King. (Selections.)

Third Year.**First Semester.**

1. **Composition.** One theme a week.
2. **Outline of History of English Literature.**
3. **Gayley and Young's Principles and Progress of English Poetry.** Four hours a week.

Gray: The Elegy.

Wordsworth: Tintern Abbey, Ode to Duty, Ode on Intimations of Immortality.

Milton: Comus, Lycidas.

Shelley: The Cloud, Ode to a Skylark.

Browning: Andrea del-Sarto, Rabbi Ben Ezra.

Second Semester.

1. **Composition.** One theme a week.
2. **Classics.** Four hours a week.

Burke: Speech on Conciliation.

Webster-Hayne Debate.

Shakespeare: Midsummer Night's Dream.

Shakespeare: Macbeth.

EXPRESSION.

Two hours a week, throughout the year, for students in the first year. This course is designed to make the student more proficient in common reading, and to enable him not only to interpret clearly the literary thought, but to express it as well.

Much stress is laid upon English Phonation. Perhaps there is no subject in education that is of so much importance, and yet so deeply neglected. "The manner in which one speaks his mother tongue is looked upon as showing more clearly than any other one thing what his culture is, and what his associations have been." Selections from the best literature will be used in the study of the principles of vocal expression. Sight reading will be one of the features of the work.

FRENCH.

First Year.

The aim of the work in this year is to enable the student to pronounce, understand, read and write very simple French. To this end is given constant drill in reading aloud, writing from dictation, and viva voce translation, as well as the ordinary work in grammar and writing of exercises.

The vocabulary is increased by the memorizing of poems, and there is a constant endeavor to train the ear as well as the eye. The grammar work comprises the forms and simple uses of the article, noun, adjective and pronoun, with the regular conjugations and some of the commonest irregular verbs.

Second Year.

The grammar is finished and reviewed. Increased facility in translation is acquired by the reading of a large amount of easy and interesting prose, and one recitation period a week is devoted to the rendering into French of connected English prose based on the text which is being read. A modern comedy is read at sight. This part of the recitation is conducted almost entirely in French.

GERMAN.

First Year.

Spanhoofd's Lehrbuch der deutschen Sprache. This text book provides the material for the first year's course. It comprises studies in pronunciation, grammar, drill on the forms, elementary conversation, and various anecdotes and poems for translation and memorizing. Further interesting

reading and material for conversation and composition is taken from Wenckebach's "Glueck Auf."

Second Year.

The grammar is finished and reviewed. Various modern German stories, poems, and plays are read and reproduced, both orally and in the form of written exercises.

The class work is conducted mainly in German, and the ability to read accurately and fluently and express simple thoughts in spoken and written German is required.

GREEK.

First Year.

White's First Lessons is used throughout the year. The aim of the first year's work is thoroughly to acquaint the pupil with forms.

Second Year.

During this year the first four books of Xenophon's Anabasis are translated. Daily practice is given in sight reading. Pearson's Greek Prose Composition is used throughout the year. The work is made the basis of a thorough drill in grammar. Goodwin's Greek Grammar is used for reference.

Third Year.

Books I-IV of Homer's Iliad are read and translated. Practice in sight reading is given daily from Books V and VI. Scansion, forms, syntax and mythology are given special attention. Pearson's Greek Prose Composition is used throughout the year.

Note. Beginning classes in Greek are carried on in the College Department in which the work outlined above is covered in two years. Academy students who show special ability and strength in this subject are admitted to these College classes and are advised to avail themselves of this privilege. The same credit (three units) is given to Academy students in these classes as is granted in the Preparatory Department for the three years work.

HISTORY.

The work in History is carried on by means of text-books, lectures, essays, and library work. Constant reference is made to the atlas and dictionary, maps are drawn, essays required, and the topical method is used for special subjects. Full and carefully kept note books are required in all the subjects in this department.

1. **Ancient History:** Greek and Roman History. Five hours a week, throughout the year.

2. **American History and Civics.** Five hours a week, throughout the year.

LATIN.

First Year.

The aim of the first year's work is to attain an accurate pronunciation, a thorough knowledge of all the regular forms of declension and conjugations, together with the simpler principles of syntax, and a vocabulary of about eight hundred common words.

Second Year.

Four books of Caesar's Gallic War are read. Regular forms are reviewed and essential irregular forms are learned in a systematic study of Latin grammar. There is daily practice in oral or written translation into Latin of exercises based on the text read, and sight translation is an important part of the year's work. Some attention is given to subject matter.

Third Year.

In the reading and interpretation of six of Cicero's orations the time is equally divided between language and subject matter. The grammar is thoroughly reviewed in daily oral or written composition based on the text. An attempt is made to gain a definite knowledge of Cicero and his age, of the Roman government in Cicero's time, and of the city of Rome. The simpler letters are read at sight.

Fourth Year.

The first six books of Vergil's Aeneid are read and inter-

preted. A special effort is made to approach the work as poetry. Prosody, figures of speech, mythological references, and poetical constructions are studied. Metrical reading is insisted upon. An idea of the Aeneid as a whole is gained by the sight reading of portions of the last six books. The entire grammar is reviewed in weekly prose composition.

MATHEMATICS.

The aim of the course in mathematics is to cultivate the habits of independent reasoning, of accuracy of work, of precision and clearness in the statement of conclusions and the reason upon which they depend. First in importance is the intellectual training that makes the mind a ready and keen tool; second, the orderly acquisition of facts. Absolute thoroughness and work that increases in amount and difficulty with the student's increasing capacity, are required. The student's efficiency is measured by his power to do. Throughout the course written reviews and test examinations are frequent.

Algebra.

1. Fisher and Schwatt's Secondary Algebra, through Quadratics, five hours a week, throughout the year. Special emphasis is placed on factoring and on the solution of equations. The object of the study is not only to acquire a knowledge of the subjects required for admission to the leading universities, but to secure the mental discipline for its own sake, and such a drill as looks to the use of the algebraic method in future study.

2. Beman and Smith's Elements of Algebra, five hours a week throughout the year. The text-book work is supplemented by lectures. These lectures are on the theory of algebra, and are a most important part of the work. This course is open only to those who have taken Course 1.

3. Fisher and Schwatt's Higher Algebra, two hours a week, throughout the year. This course is given as an elective for students of marked mathematical ability, and is open only to those who have taken Course 2.

Geometry.

1. Plane Geometry, five hours a week, throughout the year. Careful attention is given to constructions, clear and logical expression, and above all to the attainment of the power to do original work in geometry. The exercises of the text-book are supplemented by constant suggestions by the teacher for investigations.

2. Solid Geometry, three hours a week, during the first semester.

Trigonometry.

Plane Trigonometry, and the study and solution of the Right Spherical Triangle, three hours a week, during the second semester. This course also includes a brief study of Logarithms.

DRAWING.

First Year.

Ten hours a week, throughout the year.

First Semester, **Freehand Drawing:** Elementary line work from geometric solids and simple natural objects.

Second Semester, **Instrumental Drawing:** Linear drawing, simple geometric problems, lettering.

Second Year.

Ten hours a week, throughout the year.

First Semester, **Freehand Drawing:** Advanced line work in pencil from casts and still life, flat wash in black and color.

Second Semester, **Instrumental Drawing:** Advanced geometric drawing, conic sections, projections.

PHYSICAL TRAINING.

First Year.

Systematic class work. This consists of vigorous drill with dumb bells, clubs, bar bells, etc., for the men; for the women, general development exercises in walking and running,

simple, free movements, recreative games and outdoor sports. Required of all first year students. Two hours a week, throughout the year.

Second Year.

Progressive graded work on various pieces of gymnastic apparatus, mat work and gymnastic games for the men; more difficult free movements, relaxing exercises, mat work, walking, drill, and dumb bells and games in the open air for the women. Required of all second year students. Two hours a week, throughout the year.

SCIENCE.

Biology.

Botany and Zoology, each given as a full course of eight hours per week, for one year. The work in each is a combination of laboratory study, lectures and recitations, with a careful notebook record of the work actually done by the student under the direction of the teacher. The ground covered and the method employed are such as fully meet the requirements of any college to which the student might desire to go.

Chemistry.

The subject of Chemistry continues throughout the year, and includes all the general principles—theoretical and practical—of inorganic chemistry, such as given in Remsen and Randall's Chemical Experiments. Recitations and individual laboratory work occupy not fewer than seven hours per week. A special effort is made throughout to develop the scientific habit of thought and to lead the student to observe the chemical changes constantly taking place. In the laboratory each student is furnished with a desk and all necessary reagents and apparatus, and is required to keep a complete record of the work done during the year.

A laboratory fee of seven dollars per semester, and an additional deposit of five dollars is required. The loss by damage or destruction of apparatus will be deducted from the deposit of five dollars, and the balance refunded at the close of the semester.

Physics.

This course is designed to give the student a familiarity with the principal facts, laws and theories of Physics. This is accomplished by the careful study of a text and definite Laboratory work occupying five hours each week.

A laboratory fee of four dollars per semester is charged.

SPANISH.**First Year.**

This year's work is designed to fit the student to pronounce, understand, read and write simple Spanish. To this end there is constant drill in reading aloud and translation writing and exercises, dictation and simple conversations. The grammar work consists of the study of the different parts of speech and their use in the sentence with relation to each other.

Second Year.

The grammar is finished and reviewed. Short stories from popular authors are read and conversations formed in Spanish, using the reading as a text.

GENERAL INFORMATION.

For general information concerning location of school, religious privileges, library and reading room, the museum and the science laboratories, athletics and the gymnasium, see pages 6-7-8-9.

Tuition and Fees.

(Per semester, payable in advance)

Tuition: Full preparatory course	\$35.00
Two studies	25.00
One study	17.00
(Gymnasium fee and instruction in physical education included in above.)	
Gymnasium fee and instruction in physical education taken without other studies	6.00
Registration fee, included in above, but not subject to rebate	5.00
Laboratory fees	\$4.00
Botany	4.00
Zoology	4.00
Chemistry	7.00
Physics	4.00

An additional deposit of \$5.00 to cover breakage, is required in Chemistry. This deposit, less cost of breakage, is refunded at the end of the semester.

For three studies full tuition will be charged.

A diploma fee of three dollars is charged the student who completes one of the regular courses of study.

Students who are recommended by a quarterly conference as candidates for the ministry; young women who are recommended for the work of deaconess by a quarterly conference and the Conference Board of deaconesses; and the children of ministers in the regular work of any evangelical denomination, may have their tuition fees reduced to one-half the regular rate.

A discount of ten per cent. will be allowed on the second semester when the tuition fees for the whole year are paid in advance; also a discount of ten per cent. when two or more students enter from the same family.

No rebate will be allowed for less than one-half a semester's enforced absence.

The Declamation Prize.

A prize of ten dollars, offered to the student who wins in contest in declamation, was awarded in 1906 to Mr. Benj. Scott.

Rooms and Board.

Students are required to submit to the Faculty a statement of the places where they desire to room and to board, and must secure their consent in each case.

Board and furnished rooms can be secured in private families at from three dollars to five dollars per week. Furnished rooms accommodating two students cost from four to eight dollars per month.

Other expenses incident to school life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the school for want of money.

For further information address:

President George F. Bovard,
Los Angeles, California.

The Commercial School

THE COMMERCIAL SCHOOL.

Professor Short.

The University maintains a fully organized commercial department, in which a full commercial course is provided for those who wish to prepare at once for business pursuits, and in which students of the Preparatory School and of the College of Liberal Arts have an opportunity to get instruction in the commercial branches. Careful instruction in all the elements of a business education is given, including full work in stenography and typewriting. A diploma is given to those who complete the business course or the course in stenography and typewriting.

COURSES OF INSTRUCTION.

Bookkeeping.

Our method of teaching the science of accounts makes the subject interesting and comprehensive.

The student learns first to journalize the different kinds of business transactions, and gets the meaning of the terms debit and credit. He then begins writing regular sets of books from simple and carefully selected business transactions. He is led step by step from the simple to the more difficult work until he has studied every variety of business transaction and mastered the principles of the subject. The transactions for these sets are carefully chosen, and are well adapted to the study of principles. The student also makes out statements, trial balances and balance sheets when he closes the ledger accounts. He is now capable of taking up the most fascinating branch of the subject, which is business practice.

Business Practice.

The student now goes to the Exchange and secures his cash, and other resources, with which to begin business. He takes the place of a principal, or of a bookkeeper for a firm, and begins a retail grocery business. He fills out notes, checks, drafts, makes deposits in the bank, writes receipts, makes out bills, statements, etc., and performs every variety of transaction, of which he keeps an accurate record in his books. When this set of books is finished he closes out this business, settles up, and enters the dry goods business, and so on, until he is thoroughly acquainted with the methods of keeping accounts by single and by double entry. Students do the office work by turn until all become familiar with every detail of the work.

Penmanship.

The ability to write a rapid, neat and legible hand is of the utmost importance to those who are to enter upon a business career. There are many clerical positions for persons who can write well, but none for those who cannot. „

Recognizing this fact, our course of instruction is designed to lead the student to study and practice the art with the greatest possible pleasure and success. As a result our students soon become good writers and in the pursuit of other commercial branches make all of their papers and books present a creditable appearance. We teach the style of business writing which is taught by the best commercial colleges, and which is indorsed by business men throughout the country.

Commercial Arithmetic.

The aim is to give a thorough training in practical arithmetic. Accuracy and speed in addition, subtraction, multiplication and division are required. Thorough work in fractions is done that the student may not be deficient in this important branch of the subject. Denominate numbers are carefully taught. Percentage and all its applications receive careful attention.

English Grammar.

The chief objects to be accomplished in the study of grammar are accuracy and facility in the use of both spoken and written language.

To secure these ends, a careful study of the principles, forms and laws of discourse is essential. The sentence is the foundation or unit of discourse. All good writing consists of correct sentences properly joined. The student should be able to place the principal and subordinate elements in their proper relation. He should understand the function of every element, its relation to other elements, and its relation to the whole. For this reason great stress is placed upon the importance of composition the analysis of sentences, and the parsing of words. The aim is to interest and instruct the student in the more practical parts of the subject, and to stimulate and impel him to the use of good language and accurate terms in his every-day pursuits.

Correspondence.

As a very large percentage of the business of this country is conducted through the medium of letters, the ability to write a good letter can hardly be overestimated. The person who properly exercises this power may win the esteem and confidence of those who thus know him. This subject, as taught in our business course, embraces correct forms for the different kinds of letters—their parts, the heading, the address, the salutation, the body, the complimentary close and signature. The student becomes thorough by practice in writing letters of introduction, recommendation, application, and complaint, and in ordering goods, making remittances and sending telegrams.

Spelling.

The ability to spell and pronounce words correctly, and to use the word having the right meaning at all times, is one of the rarest accomplishments. To aid in attaining this desirable end, it is evident that the student should study not only the spelling, or form of words, but also their real significance and application. The design of the course is to help the student to

become proficient in this subject without which no education is complete.

Commercial Law.

Business education is incomplete without a knowledge of the laws governing trade. This course requires a careful study of the following subjects: Contracts, Negotiable Paper, Sales of Personal Property, Agency, Partnership, Corporations, Common Carriers, Innkeepers, Insurance, Husband and Wife, Telegraph and Telephone Companies, Patents and Copyrights, Landlord and Tenant, and some others. A text book is used for study and class work, but this is supplemented by lectures.

Shorthand Course.

Stenography and typewriting are the principal subjects of this course, but a knowledge of English grammar, spelling and letter-writing are required. Graham's Standard Phonography has been chosen as the most desirable system on account of its beauty, brevity, precision of expression, and general harmony of the principles presented. For many years it has been subjected to the most thorough tests in legal, literary, scientific and other forms of reporting. These have been the most convincing evidences of its superiority.

The student is required to master the principles as presented in the corresponding style, before taking up the more advanced work. This is necessary in order to lay a good foundation for the reporting style. The study of amanuensis work then forms an easy stepping stone from the corresponding to the reporting style of writing.

The Remington and Smith Premier typewriters are used, and both the "touch" and "sight" methods of writing are systematically taught.

The exact time required to complete a course cannot be given, since much depends upon the ability and energy of the student. As a general rule, it takes from one to two years to master a course, unless the student has already had a part of the work.

Tuition Fees.

Business course, per semester	\$30.00
Shorthand course, per semester	32.00

Catalogue of Students

THE COLLEGE OF LIBERAL ARTS.

Name	Major	Hours.	Home Address.
Adams, Alice Leatie.....			Los Angeles
Adams, Edwin Oscar.....		19	Garvanza
Allen, Florence Elizabeth.....			Los Angeles
Amis, Avis Frank.....	English....	104	Los Angeles
Amis, Bonnie Ethel.....	English....	111	Los Angeles
Anderson, Jessamine August.....	English....	15	Los Angeles
Anderson, Mary Elaine.....	History....	67	San Dimas
Arnold, Martha Margaret.....	English....	115	Los Angeles
Ashcraft, Edwin Perry.....	History....	70	Palms
Atwood, Amy Lovina.....	Zoology....	50	Pasadena
Augur, Edna Frances.....	English....	8	Los Angeles
Augur, Irving Van Aken....	Chem.....	14	Los Angeles
Avakian, Arsen Harootune..	Chem.....	35	Los Angeles
Ball, Adelaide.....	History....	59	Downey
Ballard, John Hudson.....		15	Los Angeles
Bauer, Owen Warner.....	Eng'r.....	19	Los Angeles
Beane, Gertrude Emily.....		88	Los Angeles
Beardsley, Robert Le Roy...	Physics....	3	Los Angeles
Beckwith, Hermon Eldbrige..	History....	70	Los Angeles
Bell, Percy Merton.....	Chem.....	16	Long Beach
Berry, F. R. Miss.....			Los Angeles
Best, Oliver Warren.....	History....	107	Los Angeles
Best, John Harclen.....			Los Angeles
Best, Sarah Edna.....	English....	9	Los Angeles
Bickford, Jay Hamilton.....	Chem.....	12	Los Angeles
Bidwell, Bessie Fidelia.....	History....	71	Lapeer, Mich.
Bien, Beulah Vernon.....		7	Los Angeles
Blackman, Merl A.....	Eng'r.....	15	Los Angeles
Boller, Leah Claire.....		6	Los Angeles
Boller, Phillips.....		42	Los Angeles
Bowers, Chester Herbert....	Zoology....	31	Los Angeles

Bowers, Isabelle May.....	Zoology....	76	....	Los Angeles
Bowser, Charles Arthur....	Zoology....	10	....	Los Angeles
Brannick, Lawrence.....	English....	98	....	Los Angeles
Bridges, Sadie Ethel.....		16	....	Los Angeles
Bristow, Hazel.....			....	Los Angeles
Brown, Frederick Raymond.....		15	....	Los Angeles
Brown, Zula Frances.....	English....	85	....	Long Beach
Bruckman, Edith Louise....	French....	42	....	Los Angeles
Brundidge, Mabel Roma.....			....	Los Angeles
Bryant, Gloster Robert.....			....	Los Angeles
Buchanan, Genevieve.....		12	....	Pueblo, Colo.
Buckmaster, Guy W.....	Chem.....	84	.....	Whittier
Buffington, Charles Stewart.	Chem.....	35	.....	Woody
Burek, Stanilaus Leo.....	Chem.....	44	..	Wausau, Wis.
Burke, Villa.....	English....	16	....	Los Angeles
Burmeister, Emma Minnie..	Latin.....	20	....	Los Angeles
Butler, Joseph Henry.....	Econ.....	37	.....	Downey
Butters, Lauretta Marguerite		17	....	Long Beach
Byrer, Clarence W.....		28	....	Los Angeles
Cain, Morris Allen.....		13	.....	Santa Ana
Carmichael, Edward W.....		14	.....	Hemet
Carnes, Margaret Rose.....	English.....		....	Los Angeles
Carnes, Welcome D.....	History....	100	....	Los Angeles
Carter, Ray Alden.....	Zoology....	79	....	Los Angeles
Chadwick, Nina May.....	Latin.....	18	....	Los Angeles
Chandler, Ida Marian.....		36	....	Los Angeles
Chelgrene, Silva Elsa Dora..	English....	8	....	Los Angeles
Cherington, Frederick Wm..		55	..	Lancaster, O.
Choate, Joseph Lynn.....			....	Los Angeles

A. B. Stanford University.

Clark, Oliver Oren.....		3	....	Los Angeles
Clark, Ralph Waldo.....	Math.....	48	....	Los Angeles
Clark, Stephen Hart.....	Math.....	46	....	Los Angeles
Clay, Thomas Lyman.....		11	....	Los Angeles
Cleave, Irving LeRoy.....		12	....	Los Angeles
Cloyd, Bert Reese.....			....	Yuma, Ariz.
Cogswell, Frederick Allen...	Physics....	11	.....	El Monte

Collison, John Clyde.....	16	....Los Angeles
Comstock, Solomon Boyd... Econ.....	56	....Los Angeles
Cook, Orwyn Wesley Edgar..History....	81	....Los Angeles
Cooper, Henry Charles.....		....Los Angeles
Cooper, Maurice Edwin..... Phil.....	110	South Pasadena
Cooper, Charles Arthur..... English....	54	....Los Angeles
Crall, David Edwin..... History....	39	....Los Angeles
Cranmer, George Owen.....		Beardsley, Minn.
Crooker, Leon James.....	15	....Clearwater
Crippen, Ransim Everest.....		....Los Angeles
Cross, Hugh Felix..... English....	8	....Monrovia
Cuff, Maud Anna.....	4	....San Diego
Curl, Robert Latta.....	44	....Los Angeles
Cushman, Clara Elizabeth... ..	18	....Los Angeles
Custin, Guy	Math.....	Collinwood, Ohio
Davidson, Harold Edwin..... Physics....	18	....Alhambra
Davidson, Mildred Elizabeth.	17	....Los Angeles
Day, Samuel Hamilton.....	3	....Los Angeles
Decius, John Harmon.....	15	....Los Angeles
Dell, Hazel..... English....	20	....Los Angeles
Denniston, Luther Ward..... Econ.....	31	....Los Angeles
Detering, Eleanor.....	10	....Los Angeles
Dick, Jennie M..... History....	71	McPherson, Kas.
Doughty, Vivian Ellen.....	36	....Hollywood
Ebhara, Shichiro..... Phil.....	15	Yoshida-Mura, J.
Elliott, Karl..... Eng'r.....	14	....Pasadena
Ensley, Oliver.....	27	....Ontario
Erwin, Mary Jordan.....		....Los Angeles
Esterbrook, Florence Fern..English....	8	....Los Angeles
Estoppey, Eugene M.....	9	....Los Angeles
Everett, Marietta Victoria.....	13	....Sawtelle
Faull, Adina May..... English....	66	....Los Angeles
Finch, Robert McMaster.....		....Los Angeles
Fisher, Robert S.....		....Los Angeles

A. B. University of Southern California.

Fitch, Frank Brewer.....	51	....Los Angeles
Flanders, Carrie Eleanor.....		....Los Angeles
Fletcher, Paul Battelle..... Econ.....	5	....Los Angeles

Fosdick, Archibald Morris.....	.....	Los Angeles
A.B. Stanford University; L.L.B. University of So. Cal.		
Foss, Josiah Davis.....	Math..... 33	.....Los Angeles
Francis, Mabel.....	..... 6	.....Escondido
Francis, Leon Sutton.....	..... 11	.....Los Angeles
Garcia, Ernesto Benito.....	History.... 106	.....Los Angeles
Garrard, Emma Grace.....	..... 12	.....Upland
Gaston, Milnie Maria.....	..... 51	.....Riverside
Gates, Austin Bryant.....	..... 15	.....Alhambra
Gay, Leslie F. Jr.....	History.... 50	.....Los Angeles
George, Bartine.....	..... 3	..Bangkok, Siam
Giffen, Camille Wiless.....	History.... 6	.....Los Angeles
Goetz, William Henry.....	Chem..... 61	.....Los Angeles
Gordon, Claribell.....	English.... 19	.....Los Angeles
Griffen, Charles Henry, Jr.....	..... 17	.....Los Angeles
Grizzle, Ivan Roy.....	..... 10	.....Corona
Haigler, Charles Alvin.....	Math..... 30	..Tempe, Ariz.
Halloran, Edna Parthenia...	French.... 13	.....Los Angeles
Hamlin, Burton.....	History.... 108	.....Los Angeles
Hampton, Arlie Lorenzo.....	..... 11	.....Los Angeles
Hanna, Tacie May.....	..... 14	.....Colton
Harriman, William Ruddy.....	..... 10	.....Los Angeles
Hart, Belle.....	..... 14	.....Los Angeles
Hazard, Cassandra Pauline..	Zoology.... 15	.....Whittier
Heil, Marian Vernelia.....	History.... 104	.....Santa Ana
Hidden, Carrie Maybelle....	History.... 15	..Phoenix, Ariz.
Hillman, Edward William...	Eng'r.....	.....Los Angeles
Hoag, Nellie Graham.....	.....	.....Azusa
Hockett, Harold Brown.....	Zoology.... 35	.....Los Angeles
Hoegerman, Rosalia Charlotte.	Zoology.... 48	.....Los Angeles
Hogan, Ethel Josephine.....	..... 7	.....Los Angeles
Hoke, Verna May.....	Math..... 58	Silver Lake, Ind.
Holder, Edith Marian.....	..... 19	.....Los Angeles
Homer, Charles Henry.....	Chem..... 40	.....Los Angeles
Horton, Mark McKendree...	Greek..... 10	.....Santa Ana
Hossack, Harry Francis.....	Econ..... 18	.....Los Angeles
Howe, John Paul.....	English.... 11	.....Los Angeles
Hunley, Annette Fillius.....	..... 4	.....Los Angeles
Hunt, Carl Williams.....	Math..... 103	.....Los Angeles

Hunter, Katherine.....Fullerton

A. B. Stanford University.

Jackson, Wyne Bassett.....Hollywood
 Jones, Clarence Edward.....Chem..... 44Los Angeles
 Jones, Richard Girard.....Chem..... 17Los Angeles
 Joslin, Phoebe Ione..... 28Los Angeles
 Kallmeyer, Paul.....El Monte
 Keasbey, Edward.....Los Angeles
 Keller, Clefa Edna.....English.... 18Los Angeles
 Knoles, Tully Cleon.....Los Angeles

A. B. University of Southern California.

Kuster, Edward G. (Mrs.)...Phil..... 82Los Angeles
 Landreth, Lillian Maude..... 15Los Angeles
 Lane, Mary Ella Jenkins....Spanish.... 17Compton
 Leeke, Ethel Frances.....Upland
 Leonard, Allan Langdon.... 12Los Angeles
 Loomis, Walter Clyde.....Moneta
 Lucas, Lowell A..... 13Visalia
 Lyman, Lulu Antoinette.....Corona
 Maas, Arthur Richard.....Chem..... 5Los Angeles
 Macleish, Archibald Campbell 77Los Angeles
 Mallory, Frances..... 5Los Angeles
 Mallory, Gertrude.....English.... 21Los Angeles
 Malone, Lulu..... 12San Jacinto
 Maltinesco, Henry Baruche..Chem..... 15Los Angeles
 McMillan, Carrie Mauneena. 3Los Angeles
 McNeil, Diana Bralah.....History.... 46Los Angeles
 Mealey, Roy Everett.....History.... 54Compton
 Mee, Thomas Henry.....History.... 29St. Helena
 Melrose, Cover C.....Eng'r..... 16Tropico
 Miller, Read Erskin.....Chem.....Los Angeles
 Mitchell, Frances.....History.... 14Los Angeles
 Mohler, Mark.....History.... 50Los Angeles
 Montgomery, Wayne WarrenMath..... 16Los Angeles
 Moore, Walter Scott, Jr.....Los Angeles
 Morris, Isadore.....Los Angeles
 Morrison, George David..... 15Los Angeles

Munson, Arthur Case.....	5	.....Los Angeles
Myers, Jessie Leith... ..	4	.....Los Angeles
Myrick, Lydia.....English....	47	.....Whittier
Myrick, Margaret.....	5	.....Whittier
Neff, Lawrence Wilson.....	17	San Bernardino
Newkirk, William Bentley...Chem.....	8	.....Los Angeles
Nicholson, John Hugh.....Chem.....	26	Edgefield, S. Car.
Nivergoll, Etta May.....	12	.....Los Angeles
Noble, Carrie M.....	11	.....Los Angeles
Nordahl, Henry Alfred.....Math.....	73	.....Escondido
O'Brian, Dewitt Hamilton.....	16	.....Los Angeles
Ohashi, YasuNosuke.....Econ.....	107	.....Los Angeles
Okitsu, Takeski.....History....	47	Nagasaki, Japan
Oliver, John.....		.....Santa Paula

A. B. University of Southern California.

Ore, Albert Harman.....	15	.....Los Angeles
Oswald, Christian Lester.....	32	.....Los Angeles
Owen, Theodore Powell.....Chem.....	23	.....Los Angeles
Palmer, Janie Elizabeth.....	13	.....Compton
Parmelee, Clara Elois.....English....	74	So. Pasadena
Parmelee, Florence.....		So. Pasadena
Parmenter, Charles Leroy... ..	16	.....Los Angeles
Parsons, Charles LeRoy.....Chem.....		.....Los Angeles
Patterson, Mima Florence...Latin.....	108	.....Los Angeles
Perkins, Ethel Mary.....	51	.....Ames, Iowa
Perkins, Genevieve Hazel....	51	.....Ames, Iowa
Petterson, F.....		.....Los Angeles
Pierce, Sterling Newton.....	15	.....Los Angeles
Poindexter, Mabel Mildred.. ..	11	.....Los Angeles
Porter, Archie William Noel,History....	76	.....Los Angeles
Pratt, Marguerite Eugenia.....	53	.....Los Angeles
Price, Edward Haynes.....Phil.....	15	.....Los Angeles
Priestley, Herbert Ingram... ..		.....Wilmington

Ph. B. University of Southern California.

Ralston, John Clarence.....Eng'r.....	3	.....Long Beach
Reberger, William.....Phil.....	51	New York, N. Y.
Reeve, Theresa Frances.....Latin.....	72	.....Los Angeles

Reeves, James Walter.....	17	..Santa Monica
Riley, Myrtle Alice.....		....Los Angeles
Richards, J. Glenn.....		....Los Angeles
Richardson, Frank Robert.....	6	....Santa Paula
Richardson, Faith Harrington.....	79	....Santa Paula
Rickard, Ernest Woodward.....	14	.....Hemet
Riner, Grace Lucile.....	106	....Los Angeles
Ritchey, Mattie G.....	53	.....Santa Ana
Robb, Marie Amy.....		....Los Angeles
Robinson, Flora Humason.....	15	.....Riverside
Roome, Beatrice May.....	12	....Los Angeles
Rose, Sarah Garrett.....		....Los Angeles
Ross, Fred Harmon.....	11	....Los Angeles
Ruch, Semone Pearl.....		....Los Angeles
Runyon, George Orien.....	68	....Los Angeles
Rush, Frances Louise.....	50	....Los Angeles
Russell, Pearl Agnes.....	76	.....Fresno
Saito, Tatsu Saburo.....	5	....Los Angeles
Sakamoto, J.....		....Los Angeles
Santee, William J.....		....Los Angeles
Schieber, Oliver Jay.....	20	....Los Angeles
Schuman, Moreland William.....	17	....Los Angeles
Schwartz, William Leonard.....	36	....Los Angeles
Schwartz, Anna Dale.....	2	....Los Angeles
Scott, Charles Holmes.....		.....Ventura

A. B. University of Southern California.

Seaver, Dean Charles N.....		....Long Beach
Shaw, Herschel.....	4	....Los Angeles
Sheats, Lura Marie.....	51	....Santa Ana
Sherwood, Guy E.....	14	....Los Angeles
Shorte, Katherine E.....		....Los Angeles
Skinner, John Kenneth.....		....Los Angeles
Smith, Alice Irene.....	6	....Los Angeles
Smith, Earl Franklin.....		....Los Angeles
Smith, Fred Arnold.....	6	.....Inglewood
Snyder, Stella May.....	11	...So. Pasadena
Snyder, William Cloyd.....	5	Mansfield, Ohio
Spangler, Glen Harwood.....	99	....Los Angeles

Speicher, Robert A.....	8	....Los Angeles
Spencer, Wendell J.....	11	....Los Angeles
Steward, Valmore L.....		.....Anaheim
Stoddard, Celona Martin.....	Eng'r.....	..Phoenix, Ariz.
Stonehouse, Arthur E.....	Chem.....	.....Pasadena
Stovall, Leonard.....	13	..Prospect Park
Stump, Blanche Elizabeth....	English....	11 .....Hemet
Sullivan, Olive Ione.....		....Los Angeles
Swantek, Louis.....	Eng'r.....	16 ....Los Angeles
Taylor, Howard Corbin.....	16	.....Lynn, Pa.
Taylor, Mabel Renee.....	54	....Los Angeles
Thornton, Alta Evelyn.....	Zoology....	81 .....La Mirada
Thornton, Ethel.....	History....	49 .....La Mirada
Thorpe, Harvey Lasher.....	Zoology....	59 ....Los Angeles
Toshimitsu, Jiohei.....	History.....	....Los Angeles
Twining, Harry LaVerne.....		....Los Angeles

A. B. University of Southern California.

Twining, Jennie May.....	100	....Los Angeles
Vale, Mabel Mildred.....	English....	105 ....Long Beach
Vale, Nellie Lucretia.....	English....	105 ....Long Beach
Webb, Raymond Prescott.....	20	....Los Angeles
Weber, Clarence Edward....	Chem.....	70 ....Los Angeles
Welfer, Harry Albert.....	15	....Los Angeles
Westrem, Christine.....	History....	79 .....Alhambra
White, Charles J.....	Econ.....	.....Pasadena
Willett, Grace Alice.....	13	....Los Angeles
Willett, Harriet Mary.....		....Los Angeles

A. B. University of Southern California. .

Willett, Hugh Carey.....	Latin.....	112 ....Los Angeles
Williams, Edwin Eugene....	Eng'r.....	28 ....Los Angeles
Wilson, John Oliver.....	English....	66 .Macedon, N. Y.
Wilson, Maude Alice.....	Chem.....	116 ..Phoenix, Ariz.
Wilson, Ruth E.....	Latin.....	44 Mitchell, So. Dak
Wirsching, Carl Bernardino..	Eng'r.....	15 ....Los Angeles
Wood, Laura Mae.....		42 .....Whittier
Wrisley, Gerald Manning....	German....	83 .....Long Beach
Wyatt, Julia Blanche.....	History....	15 .....Hermon
Young, Gary Garfield.....	21	Lodge Pole, Neb.
Zander, Lucile Elaine.....	6	....Los Angeles

COLLEGE OF MEDICINE.
UNDERGRADUATES, SESSION 1906-1907.

First Year or Freshman Students.

Class of 1910.

Bahrenburg, Charles Norman	Los Angeles, Cal.
State Exam. Certificate.	
Brown, Charlotte Marie	Los Angeles, Cal.
State Exam. Certificate.	
Burdette, Leo Wentworth	Los Angeles, Cal.
Queens Univ. Kingston, Ont., Can. '04.	
Burnett, Theodosia Burr	Los Angeles, Cal.
State Exam. Certificate.	
Gardiner, Vera P.	Los Angeles, Cal.
Stanford Univ. '04, '05.	
Grubb, Thomas Elmer	Los Angeles, Cal.
Los Angeles High School, '06.	
Hartwell, Robt William	Tucson, Ariz.
Stanford Univ., 3 years.	
Murray, Mrs. Olga	Los Angeles, Cal.
State Exam. Certificate.	
McNeil, Lyle Gillette	Los Angeles, Cal.
State Univ. of Cal., 1 year.	
Murphy, Miss Jennie	Alamogordo, N. Mex.
Temple H. S., Texas, '03.	
Parrish, Fred W.	San Diego, Cal.
State Exam., '06 Certificate.	
Roberts, Jean Margarette	Los Angeles, Cal.
Occidental College, 2 years.	
Roan, Richard R.	Los Angeles, Cal.
Cal. State Normal, '06.	
Shank, Clyde Earl	Dayton, O.
Acad. Miami Univ., Oxford, Ohio.	

Second Year or Sophomore Students.

Class of 1909.

Allen, Charles Stewart	Los Angeles, Cal.
Los Angeles High School, '04.	

- Choate, Joseph Lynn Los Angeles, Cal.
Stanford Univ., A. B.
- Cocke, John Vinton Los Angeles, Cal.
State Exam. Certificate.
- Cowan, James Rae Los Angeles, Cal.
College Lib. Arts, Univ. S. C., 2 years.
- Cynn, Hugh Heungwo Chungju, Corea
Univ. S. C., 2 years.
- Duncan, Rex Dowles Los Angeles, Cal.
Creighton Med. College, 1 year.
- Ellis, Melvin Gardena, Cal.
Depauw Univ., Ph. B., '03.
- Granger, Arthur Stanley Los Angeles, Cal.
Univ. of Cincinnati, A. B., '02.
- Hill, Walter B. Garden Grove, Cal.
Univ. of Cal., B. S.
- Hiller, Albert W. Los Angeles, Cal.
Acad. U. Pacific, '05.
- Holliday, Alexander Gailland Pasadena, Cal.
Monmouth College, 1 year.
- Kimmell, Ernst Welland Hemet, Cal.
Los Angeles High School, '04.
- Koebig, Walter C. Los Angeles, Cal.
L. A. H. S., '03., Lib. Arts, U. S. C., 1½ years.
- Lindenbaum, Max Hoboken, N. J.
College of City of New York.
- Marsh, Otto George San Diego, Cal.
College of P. & S., 1 year.
- McKnight, H. F. Los Angeles, Cal.
State Exam. Certificate.
- Mordoff, Charles Espy Los Angeles, Cal.
Univ. of Minnesota, 2 years.
- Osburn, Percy Priestley Pasadena, Cal.
Stanford Univ., 1 year.
- Peters, Mrs. Lulu Hunt Los Angeles, Cal.
Maine State Normal, '93.

- Rosenkranz, Herbert A. F. Los Angeles, Cal.
U. of Chicago, 2 yrs, Lib. Arts, U.S.C. 1 yr, Col. P. & S. 1 yr.
- Scott, Alfred J. Jr., Los Angeles, Cal.
State Exam. Certificate.
- Seckler, Hubert Ruthus Leavenworth, Kan.
Leavenworth High School, Graduate.
- Thorpe, Harvey Lasher Los Angeles, Cal.
Univ. of Cal., 1½ years.
- Utter, John William Ukiah, Mendocino Co., Cal.
Cooper Med. College 1 year.

Third Year or Junior Students.

Class of 1908.

- Cahen, Caesar G. Los Angeles, Cal.
Los Angeles High School, Graduate.
- Cahen, Edmond, Los Angeles, Cal.
Los Angeles High School, Graduate.
- Cook, Clarence W. Los Angeles, Cal.
State Exam. Certificate.
- Dakin, Wirt B. Muir, Mich.
N. W. Med. College, Chicago, Ill., 2 years.
- Emmons, Calvert L.
Univ. of Nebraska, 3 years; Denver and Gross Medical College, 2 years.
- Eversole, Henry Owen Columbia, O.
State Exam. Certificate.
- Finley, Theodore Gawn Los Angeles, Cal.
Earlham College, B. S., U. Pa. Med. College, 1 year.
- Frank, M. A. S., Los Angeles, Cal.
Burlington, Vt., High School, '03.
- Graham, Charles Martin Visalia, Cal.
State Exam. Certificate.
- Graves, Selwyn Emmett Alhambra, Cal.
Belmont School, '03; U. of C., 1 year.
- Hastings, Seaman Wood Los Angeles, Cal.
State Normal, Graduate.

- Holleran, James H. Los Angeles, Cal.
State Exam. Certificate.
- Horstman, Miss Elsa H. Los Angeles, Cal.
Univ. S. C., A. B.
- Hull, F. E. Ventura, Cal.
Ventura High School, '00.
- Huntoon, Harry A. Chicago, Ill.
College P. & S., Chicago, Ill., 1 year.
- Jones, Alanson Holden Burlington, Vt.
Univ. Vt., A. B., College Med. U. of Vt., 1 year.
- Kane, Martin H. Chicago, Ill.
College P. & S., Chicago, Ill., 1 year.
- Macleish, Archibald Campbell Los Angeles, Cal.
Univ. of Cal., 3 years; Univ. of So. Cal., 1 year.
- Matthews, Miss Pearl Eva Los Angeles, Cal.
Lib. Arts. U. S. C., B. S.
- Newcomb, Ralph Henry Pasadena, Cal.
Med. Cert. U. State N. Y., '04.
- O'Brien, Joseph J. Los Angeles, Cal.
St. Vincents College, Chicago, Ill.
- Pascoe, Elmer R. Los Angeles, Cal.
State Exam. Certificate.
- Rinker, Casper L. A. Los Angeles, Cal.
Univ. Nebraska, 4 years, Univ. Neb. Med. 2 years.
- Ross, Karl Los Angeles, Cal.
German-American Teachers Seminary, 1 year.
- Simonds, Paul Edward Los Angeles, Cal.
Napa College, Univ. of Denver, 2 years.
- Tebbetts, John Henry Los Angeles, Cal.
State Exam. Certificate.
- Ulliyott, Thomas Henry Ontario, Can.
Berlin High School, Canada.
- Weber, William Louis Huntington Park, Cal.
Browns College Prep. School, '03, Pa.

Fourth Year or Senior Students.

Class of 1907.

- Atkinson, Charles Edwin Pasadena, Cal.
Pasadena High School, Graduate.
- Beardslee, Arthur San Francisco, Cal.
Cooper Med. College, S. F., 3 years.
- Brown, Archibald R. New York
N. Y. State Normal, Classic Arts.
- Butterfield, Miss Amelia Los Angeles, Cal.
Maine Normal School.
- Chaffin, Rafe Chester Ontario, Cal.
Santa Marie High School, Art.
- Chambers, Miss Amelia Olympia, Wash.
Providence Acad., Olympia, Wash.; Woman's Medical College, 1 year.
- Doak, Thomas Coffing San Francisco, Cal.
Cooper Med. College, 1 year, Col. P. & S. 2 years.
- Elliott, Carroll Cleveland, A. B. Cleveland, Ohio.
Western Reserve Univ., A. B.
- Furusawa, T. Hooki, Japan
M. D. Hooki Med. College, Japan, M.D.
- Goodale, Robert H. San Francisco, Cal.
Univ. of Cal., Med. Dept., 3 years.
- Ham, J. Garfield San Bernardino, Cal.
San Bernardino High School.
- Hunt, Mrs. Helen A. Alameda, Cal.
Cal. State Normal, Cooper Med. College.
- Iland, Miss Minnie Grand Forks, N. Dak.
Cal. Med. College, M. D.
- Jackson, Arthur Horace New York, N. Y.
Occidental College, Ph. B.
- Lowman, Charles Leroy Los Angeles, Cal.
Jefferson High School, Park Ridge H. S.
- Martin, Marshall Lee Pomona, Cal.
Pomona College, 2 years.

- Morris, Miss Margaret M. Pomona, Cal.
Pomona High School Graduate.
- Mustard, John James Manitoba, Can.
Univ. of Manitoba, Jefferson Med. College 1 year.
- Prigge, Henry Los Angeles, Cal.
State Exam. Certificate.
- Riggins, Phillip B. Los Angeles, Cal.
Stanford Univ., 1 year.
- Seabolt, Miss Gertrude Cowles Los Angeles, Cal.
College Med. of Univ. Mich., 4 years.
- Schroeder, Leo Adelmo Los Angeles, Cal.
College of Cal., Ph. B., Phar. B.
- Standlee, Claud Los Angeles, Cal.
Los Nietos High School, 3 years.
- Sundin, Peter Olof Los Angeles, Cal.
Univ. S. C., 1½ years.
- Trevelyan, George H. Riverside, Cal.
Univ. S. C., Lib. Arts, 1½ years.
- Ward, Edward Davies Attica, Ind.
Attica H. S., Indiana '95, D. & G. Med. Col., 3 years.
- Wardell, Clarence Edmund Seattle, Wash.
Seattle Wash. S., '03, D. & G. Med. College 2 years
- Wickett, William Harold Anaheim, Cal.
Dufferin School, Canada.
- Wright, Clifford A. Los Angeles, Cal.
San Jacinto High School, '00.

Special Students.

- Kelly, A. S. New York, N. Y.
College P. & S., N. Y., M. D. '00.
- Stevens, George Michael Decorah, Iowa.
Rush Med. College, M. D., '94.
- Swartzwalder, G. Los Angeles, Cal.
Jefferson Medical College, M. D., '92.

Graduating Class of 1906.

- Ball, J. T.—Independence, Cal.
Barnhart, W.—Potomac Block, Los Angeles, Cal.
Bristol, S. A.—Interne, Sisters Hospital, Los Angeles, Cal.
Chamberlain, H. H.—Interne, Los Angeles Co. Hospital, Los Angeles, Cal.
Crowell, I.—Interne, Children's Hospital, Los Angeles, Cal.
Decker, C. W.—Interne, California Hospital, Los Angeles, Cal.
Dudley, W. O.—Hellman Bldg., Los Angeles, Cal.
Dwire, F. B.—Interne, Los Angeles County Hospital, Los Angeles, Cal.
Fairchild, F. D.—28th St. and Central Ave., Los Angeles, Cal.
Fales, J. E.—Seattle, Wash.
Farnsworth, D. C.—Los Angeles, Cal.
French, J. R.—Interne, California Hospital, Los Angeles, Cal.
Hipsh, J. F.—Santa Barbara, Cal.
Kinne, E. F.—Interne, Sisters' Hospital, Los Angeles, Cal.
Knox, G. A.—Los Angeles, Cal.
Ledyard, C. C.—Interne, Los Angeles County Hospital, Los Angeles, Cal.
Mattison, E. G.—Interne, Los Angeles County Hospital, Los Angeles, Cal.
Meharry, J. S.—Assistant Surgeon, National Home Disabled Soldiers, Los Angeles, Cal.
O'Reilly, T. W.—Los Angeles, Cal.
Patton, E. E.—Interne, Santa Fe Hospital, Los Angeles, Cal.
Peery, J. R.—Los Angeles, Cal.
Phelps, C.—Slauson Ave. and Long Beach Ave., Los Angeles, Cal.
Reed, W. J.—Copp Bldg., Los Angeles, Cal.
Sherer, W. W.—Interne, Los Angeles County Hospital, Los Angeles, Cal.
Sleeper, K. R.—Monrovia, Cal.
Smiley, W. J.—Long Beach, Cal.
Smith, H.—Los Angeles, Cal.
Swearington, A. W.—Los Angeles, Cal.
Thompson, H. A.—San Diego, Cal.
Winter, A. H.—Los Angeles, Cal.
Wood, W. A.—Pasadena, Cal.

THE COLLEGE OF PHARMACY.**Junior Year.**

Arrigo, Frank
Bell, S. D.
Carter, E. E.
Cuff, Maud A.
Hover, Leo
Kruell A. H.
Krueger, Geo. L.

Lewis, P. R.
Owen, J. C.
Rogers, J. F.
Shaffer, Ralph
Smith, J. L.
Valentini, H. E.

Senior Year.

Besser, G. C.
Fuller, H. F.
Graves, R. B.
Killian, A. F.

Noxon, H. L.
Leonard, Fay, (Mrs.)
Parsons, C. L.

COLLEGE OF DENTISTRY.**First Year.**

Abbott, C. A.	Lynn, Thos.
Bolstad, F. D.	Loughan, J. T.
Ballagh, H. A.	Maile, J. V.
Barr, John B. S.	Noyes, L. L.
Chapin, R. H.	Numbers, Ava., B. H.
Coffield, G. A.	Oka, N.
Daniels, Earl	Petterson, J. P.
Davis, H. M.	Shrode, R. D.
Felsenthal, L.	Stewart, J. H.
Goode, W. A., B. S.	Terao, K.
Greenland, S. A. P.	Wessell, Geo.
Hatcher, L. Edna	Yoshida, Y.
Inverarity, F.	

Junior Year.

Alderson, Chas. M.	Hargrove, M. L.
Barney, W. A., B. A.	Johnson, Edwin A.
Bean, Ray	King, A. A.
Brenner, A. J.	Lord, Alexander N.
Buck, Claude E.	Mannell, H. R.
Butler, E. I.	Merchant, David N.
Chapman, W. W.	Miyata, Maj. Y.,
Cresmer, C. J.	Odell, G. E.
Day, L. L.	Osenburg, F. L., B. L.
Endicott, C. W.	Perdomo, C. W.
Erwood, Howard	Prince, Wm. E.
Farnham, H. H.	Ramirez, X. J.
Finley, Edwin S.	Schildwater, Fred D.
Gardner, I. P.	Sitherwood, D. L.
Graham, Fred A.	Van Schoick, Chas. H.
Gregg, Robt. J., Jr.	Voorhees, Perry
Gresham, C. M.	Woollomes, C. R.
Gum, E. S.	

Senior Year.

Barkelew, Fred E.	Burbeck, W. R.
Benny, C. R.	Burch, Roy A.

Davis, J. E.	McHargue, W. G.
Duff, H. S.	Osenburg, E. E.
Ehred, C. T.	Richardson, G. L.
Engstrom, Carl O.	Ross, J. R., Ph. M.
Fitzgerald, Fred	Shiina, Tatsuzo
Force, R. W.	Skinner, Reginald B.
Harwood, Harry B.	Somerville, J. A.
Howard, C. C.	Spicer, Percy F.
Lape, J. P., D. D. S.	Whelan, Wm. F., B. S.
Lawler, C. E.	Williams, C. E.
Magill, J. C.	Willoughby, C. E., D. D. S.
McCollum, B. B.	

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UNIVERSITY OF SOUTHERN CALIFORNIA



Year Book for 1907-1908

With Announcements For
1908-1909

Published Bi-monthly by the University

UNIVERSITY OF SOUTHERN CALIFORNIA

Los Angeles, California, March, 1908

BULLETIN

VOLUME 3

NUMBER 1



College of Liberal Arts Year Book, 1907-1908

With Announcements for 1908-09

PUBLISHED BI-MONTHLY BY THE UNIVERSITY

Application pending at Los Angeles, California, for entrance as Second-Class Matter
under Act of Congress, July 16, 1894.

May

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1908

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CALENDAR

1908-1909

THE COLLEGE OF LIBERAL ARTS

1908

Sept. 14 Monday } Entrance examinations and registration
Sept. 15 Tuesday } for the First Semester.

Sept. 16 Wednesday Instruction begins.

Nov. 26 Thursday } Thanksgiving Vacation.
Nov. 27 Friday }

Dec. 21 Monday } Christmas Vacation.
1909 }

Jan. 3 Sunday }
Jan. 28 Thursday Day of Prayer for Colleges.

Jan. 29 Friday } Mid-year Examinations.
Feb. 3 Wednesday }

Feb. 3 Wednesday First Semester Ends.

Feb. 4 Thursday } Entrance examinations and registration
Feb. 5 Friday } for the Second Semester.

Feb. 8 Monday Instruction begins for the Second Semester.

Feb. 22 Monday Washington's Birthday.

April 5 Monday } Spring Vacation.
April 11 Sunday }

June 10 Thursday } Final Examinations.
June 15 Tuesday }

June 13 Sunday Baccalaureate Sunday.

June 17 Thursday Commencement.

June 17 Thursday Alumni Reunion and Banquet.

June 21 Monday } Summer Session.
July 30 Friday }

THE UNIVERSITY

The University of Southern California was founded in 1879, and was formally opened for students in October, 1880. It includes the following colleges each of which has a distinct faculty of instruction.

College of Liberal Arts.

35th Street and Wesley Avenue.

George F. Bovard, A.M., D.D., President.

Roy E. Schulz, A.B., Secretary.

College of Medicine.

737 Buena Vista Street.

W. Jarvis Barlow, A.B., M.D., Dean.

George H. Kress, B.S., M.D., Secretary.

College of Dentistry.

Fifth and Wall Streets.

Lewis E. Ford, D.D.S., Dean.

William Bebb, D.D.S., Secretary.

College of Law.

Rindge Bldg., 3d and Broadway.

Frank M. Porter, A.B., LL.B., Dean.

Gavin W. Craig, LL. B., Secretary.

College of Music.

35th Street and Wesley Avenue.

Walter F. Skeeel, A.B., Dean.

Charles E. Pemberton, Secretary.

College of Oratory.

35th Street and Wesley Avenue.

Beulah Wright, Dean.

Gertrude Comstock, Ph., B., Secretary.

College of Fine Arts.

201 N. Ave. 66.

William L. Judson, Dean.

Pearl Judson, Secretary.

College of Pharmacy.

35th Street and Wesley Avenue.

Walter T. Taylor, Ph., G., Dean.

Charles W. Hill, Ph., C., Secretary.

College of Theology.

35th Street and Wesley Avenue.

Ezra A. Healy, A.M., D.D., Dean.

A Preparatory School is maintained in connection with the College of Liberal Arts.

Information concerning any of the colleges, and year-books containing the courses of study, etc., will be mailed upon application to the addresses given above.

FOUNDERS OF THE UNIVERSITY.

These names include all the names of the first Board of Endowment Trustees and the first Board of Directors, and hence may be fairly held to represent the founders.

Asahel Morgan Hough; Edward Fallis Spence; Marion McKinley Bovard; Dr. Joseph Pomeroy Widney; G. D. Compton; Robert Maclay Widney; John G. Downey; P. Y. Cool; Charles Shelling; Edwin S. Chase; J. A. Van Anda; F. S. Woodcock; P. M. Green; Stephen C. Hubbell.

GOVERNMENT OF THE UNIVERSITY.

The government of the University is committed to a Board of twenty-one Trustees. This Board has the power to elect professors and other officers of instruction, to confer degrees, to manage the property of the University Corporation, and to determine the general policy of the institution.

The President has charge of the educational administration of the University and is chairman of the University Council. The principal administrative officers, other than the President, are the Deans, who have immediate charge of the work of the several faculties.

The University Council is a representative body consisting of the President, and the Dean and Secretary of each of the several colleges. It is the duty of the Council to consider the

courses offered by the several colleges with a view to increasing the efficiency and enlarging the range of University work, encourage original research and adjust all questions involving more than one of the colleges, and to advise the President upon such matters as he may bring before it.

ENDOWMENT AND IMPROVEMENTS.

The endowment of the college of Liberal Arts, started a few years ago by the munificent gift of sixty-five thousand dollars by the late Rev. Asahel M. Hough and his wife Anna G. Hough, has steadily grown until it has reached the sum of three hundred fifty thousand dollars.

Substantial improvements have been made in all of the departments of the University. Many new books have been purchased and placed on the shelves of our Libraries.

The new science halls of the College of Liberal Arts are now well equipped with apparatus strictly up-to-date. The new Chemistry Building was occupied September, 1907.

The gymnasium, the three tennis courts, the basketball court, the inclosed athletic field, with its quarter mile cinder path, and the bleachers with thirty-five hundred sittings, furnish ample facilities for physical training and out door sports.

ADVANTAGES OF LOCATION.

Los Angeles is the metropolis of Southern California. Its population of about 300,000 represents almost every State in the Union and many foreign lands.

The climate throughout the year is such that tourists from every quarter come to spend a part of the year, and many return to make this their permanent home.

It is the greatest railroad center on the Pacific Coast. Four transcontinental lines are now complete. A network of electric roads connects the city with the numerous beaches, mountain resorts and outlying towns. These are reached by delightful journeys through orange groves and orchards of semi-tropical fruits characteristic of the region.

Los Angeles is known as the Convention City of the West. Every year brings large bodies of people here for the discus-

sion of every kind of public interest known to science, politics, religion and the humanities.

These great conventions afford the student an excellent opportunity to study the subjects of their discussion, while the resident population of the city is sufficiently large to afford important advantages for the study of sociology and kindred subjects.

The diverse view-points of the groups of students in the nine colleges make their association an important educational factor.

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Albert J. Wallace,	2147 Harvard Boulevard
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Rev. B. C. Cory, A.M.,	235 W. 27th St.
W. M. Bowen, L.L. B.,	215 Coulter Building
H. W. Brodbeck, D.D.S.,	221½ S. Spring Street

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Stephen Townsend	Vice-President
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Geo. I. Cochran,	Treasurer and Financial Agent

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 Stephen Townsend,
 George I. Cochran,
 Rev. Ezra A. Healy, A.M., D.D.,
 W. M. Bowen.
 Albert J. Wallace,
 Rev. Alva W. Adkinson, A.M.,
 Geo. L. Hazzard,

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(The College of Law.)

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 George I. Cochran, Treas. of the University
 Albert J. Wallace,
 Hartley Shaw, A. B.,
 Thomas W. Robinson, A.B.,
 Frank M. Porter, A.B., L.L. B.,
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 L. T. Guild, 1137 12th St., San Diego

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 Dr. Eleanor Seymour, 150 W. Pico St., Los Angeles

COLLEGE OF LAW.

A. C. Park, 214 Merchants Trust, Los Angeles
 E. C. Campbell.

COLLEGE OF DENTISTRY.

A. C. Snively, 2305½ Union Ave., Los Angeles

COLLEGE OF ORATORY.

D. F. Howe, 1539 Shatto St., Los Angeles

COLLEGE OF PHARMACY.

Edward Henderson, 2200 W. Pico St., Los Angeles

COLLEGE OF MUSIC.

G. W. Coultas, Los Angeles

FACULTY

AND

OFFICERS OF ADMINISTRATION

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 President of the University.
 On the Gaylord Hartupee Endowment.

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 Professor of the German Language and Literature.

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 Professor of Biology.

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 University, Cumnock School. 2211 W. 21 st St.
 Professor of Oratory and Dramatic Art.

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 Professor of Mathematics.

Roy Edwin Schulz, A.B., 3426 S. Flower St.
 Professor of the Latin Language and Literature.

Harvey R. Holmes, Ph. B., 3907 S. Grand Ave.
 Professor of Physical Education.

Festus Edward Owen, A.M., 637 W. 34th St.
 Professor of the Greek Language and Literature.

James Main Dixon, A.M., F.R.S.E., 450 Cervera St., Hollywood
 Professor of the English Language and Literature.

†**George S. Beane, A.B., B. Sc., Ph. D.,** 405 N. Ave. 65
 Professor of Physics and Electrical Engineering.

† Deceased October 31, 1907.

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Professor of Economics and Sociology.
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Professor of the Spanish Language and Literature.
- Tully C. Knoles, A.B.,** Glendale
Professor of History.
- Edgar M. von Fingerlin, Ph. D.,** . . Hotel Bellevue Terrace
Professor of the French and Italian Languages and
Literatures.
- John B. Johnson, C. E.,** Pasadena
Professor of Civil Engineering.
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Hazzard Professor of English Bible.
- Stella Webster Morgan, A.B.,** 934 W. 34th
Associate Professor of the English Language and Literature.
- Elsie Vanderpool,** Graduate of Northwest-
ern University, Cumnock School, . . 1039 36th Place
Associate Professor of Expression.
Director of the Women's Gymnasium.
- Gertrude Comstock, Ph. B.,** 3105 Kenwood St.
Associate Professor of Interpretation.
Director of Outdoor Sports for Women.
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Assistant Professor in Biology.
- Ruth W. Brown, A.B.,** 2659 Romeo St.
Assistant Professor of Latin and German.
- Andrew C. Life, A.M.,** 903 W. 35th St.
Assistant Professor of Botany.
- Marion Bell Lamont,** Graduate of Northwest-
ern University, Cumnock School. . . . Long Beach
Assistant Professor of Dramatic Art and Expression.
- Arthur W. Nye, B.S., M.E.,** 1026 W. 30th St.
Assistant Professor of Mechanics and Electrical Engineering.
- John C. Avakian, C.E.,** Citizens' Nat'l Bank Bldg.
Assistant Professor of Civil Engineering.

Ethel W. Graves, A.M.,	3400 S. Flower Street
Assistant Professor of Chemistry.	
Nancy K. Foster,	643 W. 32nd St.
Lecturer in English Literature.	
Arley G. Tottenham,	716 S. Flower Street
Instructor in Drawing.	
Hugh C. Willett, A.B.,	921 37th Place
Instructor in Latin and Algebra.	
O. W. E. Cook,	3448 Vermont Avenue
Assistant in English.	
Pearl A. Russell,	826 W. 32nd St.
Assistant in English.	
Adele Stookey,	Hermosa Beach
Assistant in French.	
Edith L. Bruckman,	1060 W. Jefferson St.
Assistant in French.	
Benjamin D. Scott,	3671 S. Grand Avenue
Assistant in Spanish.	
Chester H. Bowers,	2828 Normandie Avenue
Assistant in Zoology.	
Willis H. Rich, B.S.,	2624 Budlong Avenue
Assistant in Botany.	
Guy W. Buckmaster,	904 W. 35th St.
Assistant in Chemistry.	
DeWitt H. O'Brian,	178 W. 37th St.
Assistant in Chemistry.	
Monroe Merrill,	659 W. Franklin Avenue, Hollywood
Assistant in Chemistry.	
Fredric R. Brown,	3477 McClintock Avenue
Assistant in Physics.	
Arsen H. Avakian,	853 W. 39th St.
Assistant in Surveying.	
Lucy S. Best,	929 W. 35th St.
Dean of Women.	
Sarah K. Miller,	679 W. 35th St.
Librarian.	

FACULTY AND OFFICERS OF ADMINISTRATION 15

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- Nellie L. Vale,** 411 W. 11th St., Long Beach.
Resident Secretary of the Y.W.C.A.
- Thomas L. Clay,** 112½ S. Flower Street
Resident Secretary of the Y.M.C.A.

THE COLLEGE OF MEDICINE.

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Emeritus Dean and Professor of Medicine.
- W. L. Wade, M.D.,** Knox Building, 339½ S. Hill St.
Emeritus Professor of Therapeutics.
- Walter Lindley, M.D., LL.D.,** California Hospital
Emeritus Professor of Gynecology.
- E. A. Follansbee, M.D.,** 332 Laughlin Building
Emeritus Professor of Diseases of Children.
- Henry S. Orme, A.B., M.D.,** 310 Douglas Building
Emeritus Professor of Hygiene and State Medicine.

The Senior Faculty.

- Joseph Kurtz, M.D.,** 316-18 Douglas Building
Professor of Clinical Surgery.
- George W. Lasher, M.D.,** Hollenbeck Hotel
Professor of Surgery.
- W. LeMoyne Wills, M.D.,** 540 Wilcox Building
Professor of Clinical Surgery.
- J. H. Utley, M.D.,** Bradbury Building
Professor of Medicine.
- Granville MacGowan, M.D.,** Lissner Building
Professor of Genito-Urinary Diseases.
- H. G. Brainerd, A.B., M.D.,** 313 Pacific Mutual Building
Professor of Diseases of the Mind and Nervous System.

- D. C. Barber, A.B., M.D.,** 533 Security Building
Professor of Clinical Surgery.
- H. Bert Ellis, A.B., M.D.,** 245 Bradbury Building
Professor of Ophthalmology.
- Melvin L. Moore, M.D.,** 336 Hellman Building
Professor of Obstetrics.
- Geo. L. Cole, M.D.,** 800 Auditorium Building
Professor of Clinical Medicine.
- Carl Kurtz, M.D.,** 316 Douglas Building
Professor of Gynecology.
- Stanley P. Black, A.M., M.D.,** College of Medicine, U. S. C.
Professor of Histology and Pathology.
- W. Jarvis Barlow, A.B., M.D.,** 616 Security Building
Dean of Faculty and Professor of Clinical Medicine.
- Laird Joseph Stabler, M.S., Ph.C.,** 1122 W. 30th St.
Professor of Chemistry.
- W. W. Beckett, M.D.,** 213 Pacific Mutual Building
Professor of Gynecology.
- W. A. Edwards, A.M., M.D.,** Security Building
Professor of Diseases of Children.
- Randall Hutchinson, A.M., M.D.,** 324 Bradbury Building
Professor of Physical Diagnosis.
- E. A. Bryant, M.D.,** 610 Pacific Electric Building
Professor of Clinical Surgery.
- F. M. Pottenger, A.M., M.D.,** 602 O. T. Johnson Bldg.
Professor of Clinical Medicine.
- Lyman Brumbaugh Stookey, A.M., Ph.D.,** Auditorium Building
Professor of Physiology.
- Ralph Williams, M.D.,** 540 Douglas Building
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Professor of Bacteriology.
- W. W. Richardson, M.D.,** Lissner Building
Professor of Descriptive Anatomy.
- Hill Hastings, M.D.,** Delta Building
Professor of Diseases Ear, Nose and Throat.

FACULTY AND OFFICERS OF ADMINISTRATION 17

L. M. Powers, M.D., Health Office, L. A. City Hall
Associate Professor of Hygiene and State Medicine.

Hugo A. Kiefer, A.B., M.D., 266 E. 28th St.
Adjunct Professor in Ophthalmology.

George H. Kress, B.S., M.D., 602 Johnson Building
Secretary of Faculty and Adjunct Professor of Hygiene
and State Medicine.

The Associate Faculty.

Joseph M. King, M.D.,* 433 Douglas Building
Lecturer on Medicine.

Ross Moore, A.B., M.D., 313 Pacific Mutual Building
Lecturer on Diseases of the Mind and Nervous System
and Instructor in Physiology of the Nervous System.

Dudley Fulton, M.D., Douglas Building
Lecturer on Medicine.

Theodore G. Davis, M.D.,* H. W. Hellman Building
Professor of Materia Medica and Therapeutics.

Frank M. Porter, L.L. B., Dean Law Department, U. S. C.
Lecturer on Medical Jurisprudence.

F. D. Bullard, A.M., M.D.,* 245 Bradbury Building
Instructor in Ophthalmology.

Sumner J. Quint, M.D., 212 B. F. Coulter Building
Instructor in Minor Surgery.

Arthur Godin, M.D., Auditorium Building
Instructor in Materia Medica.

Edmund Myer Lazard, M.D.,* Lissner Building
Instructor in Obstetrics.

Titian J. Coffey, M.D.,* 340 Wilcox Building
Instructor in Clinical Obstetrics.

J. A. McGarry, A.B., M.D., 212 Douglas Building
Instructor in Gynecology.

A. Soiland, M.D., 615 O. T. Johnson Building
Instructor in Electro-Therapeutics and Radiology.

Kate Wilde, M.D., 747 Crocker St.
Instructor in Diseases of Children.

*Representatives of the Associate Faculty on the Senior Faculty.

- E. H. Wiley, M.D., Lissner Building
Instructor in Anatomy.
- W. P. Millspaugh, M.D., Bradbury Building
Instructor in Gastro-Intestinal Diseases.
- Donald Frick, M.D., Delta Building
Instructor in Clinical Medicine.
- E. T. Dillon, M.S., M.D., . . . 612 Pacific Electric Building
Instructor in Surgery.
- W. R. Molony, M.D., : Mason Building
Demonstrator in Anatomy.
- J. W. Rankin, M.D., 417 Union Trust Building
Instructor in Manual Therapy.
- Thomas R. McNab, M.D., Trust Building
Instructor in Minor Surgery.
- Raymond Taylor, M.D., Lissner Building
Instructor in Pharmacology.
- M. H. Ross, M.D., 16th and Main Sts.
Instructor in Post-Mortem Pathology.
- C. W. Anderson, A.B., M.D., . . . Hellman Building
Instructor in Clinical Microscopy.
- Bertnard Smith, M.D., 616 Security Building
Instructor in Clinical Medicine.
- John A. Colliver, A.B., M.D., . . . Laughlin Building
Instructor in Diseases of Children.
- A. L. Kelsey, M.D., H. W. Hellman Building
Instructor in Diseases of Ear, Nose and Throat.
- Henry W. Howard, M.D., 800 Auditorium Building
Instructor in Surgery.
- Richard B. Chapman, M.D., Delta Building
Instructor in Materia Medica.
- Howard A. Peairs, A.B., . . . Los Angeles and Aliso Streets
Demonstrator in Practical Pharmacy.

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Dr. John A. Colliver, Chief of the Medical Clinics.

Medicine.

Professor Hutchinson	Dr. Millspaugh	Dr. Van Meter
Dr. Sweet	Dr. Hunter	

Surgery.

Dr. Alden	Dr. McNab	Dr. Garvin
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Women.

Dr. Alexander	Dr. McGarry	Dr. Kate Wilde
	Dr. R. Bullard	

Children.

Dr. Kate Wilde	Dr. Colliver
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Mind and Nervous.

Professor Brainerd	Dr. Rankin	Dr. Ross Moore
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Eye.

Dr. Bullard	Professor Kiefer	Dr. Harris
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Ear, Nose and Throat.

Professor Hastings	Dr. Kelsey	Dr. Dudley
	Dr. Montgomery	

Skin and Venereal.

Professor MacGowan	Professor Williams
--------------------	--------------------

Tuberculosis.

Professor Pottenger	Professor Kress	Dr. Thornton
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Clinical Laboratory.

Dr. E. Seymour

Drug Room.

F. C. McKinnie, Ph.G.

Out-Patient Service.

Dr. Decker

COLLEGE OF DENTISTRY.

Lewis E. Ford, D.D.S., 307 S. Broadway
 Professor of Operative Dentistry, Crown and Bridge
 work.

Henry G. Brainard, A.B., M.D., Conservative Life Bldg.
 Emeritus, Professor of Medicine.

Claire W. Murphy, M.D., Conservative Life Bldg.
 Professor Surgical Anatomy.

- William C. Smith, D.D.S., . . . Pasadena Cal.
Professor of Dental Pathology, Materia Medica,
Therapeutics.
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- L. M. Christie,** Dental College
Demonstrator Infirmary.
- Nye W. Goodman, D.D.S.,** . . . Auditorium Bldg.
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Lecturer and Demonstrator, Porcelain Inlays.
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- James D. McCoy, D.D.S.,** Gross Bldg.
Assistant to the chair of Orthodontia.
- Margaret M. Morris, M.D.,** Dental College
Laboratory Assistant in Histology and Pathology.
- J. M. Choate,**
Lecturer on Anatomy, Chief Demonstrator of Dissection.
- M. Ellis,**
Assistant Demonstrator of Dissection.
- Dr. D. Cave,** Lankershim Bldg.
Special Lecturer Clinical Dentistry.
- E. L. Townsend, D.D.S.,** . . . Wright & Calender Bldg.
Special Lectures and Clinics on Porcelain and Electric Furnaces.
- C. M. Benbrook, D.D.S.,** Auditorium Bldg.
Special Lecturer on Clinical Dentistry.
- J. F. Cook, D.D.S.,** 322 Bradbury Bldg.
Dental Society Director.

William Bebb, D.D.S.

Superintendent of the College.

A. H. Jones,

Lecturer on Chemistry.

L. M. Packard,

Lecturer on Dental Anatomy.

COLLEGE OF LAW.

Frank M. Porter, A.B., LL.B., Dean.

Evidence and Bailments.

Gavin W. Craig, LL. B.

Elementary Law and Blackstone and Real Property.

Frank R. Willis, LL. B.,

Criminal Law, Evidence and Procedure.

W. A. Cheney, Ex-Judge Superior Court,

Constitutional Law.

Curtis D. Wilbur, Judge Superior Court.

Wills and Probate Law.

W. P. James, Judge Superior Court.

Negligence.

James R. Townsend, Esq.,

Patents.

T. W. Robinson, A.M.

Statutory Interpretation, Briefing and the Use of Books.

Hon. Lewis A. Groff,

Agency and Mining Law.

D. K. Trask, Ex-Judge Superior Court.

Private Corporations.

Claire S. Tappan, LL. B.,

Contracts.

Myron Westover, LL. B.,

Commercial Paper.

Walter F. Haas, Esq.,

Municipal Corporations.

George H. Woodruff, Esq.,

Damages.

- J. W. Swanwick, Esq.,**
Appeals.
- E. W. Tuttle, LL. B.,**
Admiralty.
- James G. Scarborough, A.B.,**
Code Pleading.
- W. T. Craig, Ph. D.**
Bankruptcy.
- John D. Pope, Esq.,**
Legal Ethics.
- Seward A. Simons, A.B.,**
Insurance Law.
- H. C. Dillon, M.A.**
Common Law Pleading and Equity Jurisprudence.
- Frank James, Esq.,**
California Lien Law.
- Earl Rogers, Esq., D. C. L.,**
Advocacy.
- Wm. W. Phelps, D. C. L.,**
Partnership.
- Albert Lee Stephens, LL. B.**
Justice Court Practice.
- Frank C. Vaughn, L.L. B.,**
Equity Pleading.
- James W. Taggart, Judge District Court of Appeal,**
Domestic Relations.
- John R. Berryman,**
Torts.
- Sam L. Baker, Esq.,**
Lecturer.

COLLEGE OF MUSIC.

- Walter Fisher Skeele, A. B., Dean,** . . . 215 Thorne St.
Professor of Pianoforte and Pipe Organ.
- Abraham Miller,** . . . 1729 Hope St., S. Pasadena
Voice Culture and Directing.

Mrs. Norma Rockhold Robbins,	3409 South Hope St.
Voice Culture.	
Mrs. S. J. Brimhall,	417 W. Ave. 52
Piano.	
Miss Carrie A. Trowbridge,	1045 35th Place
Piano.	
Miss Lillian M. Arnett,	947 W. 34th St.
Piano.	
Miss Madge Patton,	1210 Valencia St.
Dunning System.	
Charles E. Pemberton,	678 S. Burlington
Violin, Harmony, Counterpoint and Musical Theory.	
Herr Oskar B. Seiling,	Sierra Madre
Violin.	
William H. Mead,	Blanchard Bldg.
Flute.	
C. S. Delano,	2610 W. 8th St.
Guitar and Mandolin.	

COLLEGE OF ORATORY.

Buelah Wright, Dean,	2211 W. 21st St.
Professor of Oratory and Speaking Voice.	
Gertrude Comstock, Ph. B.,	3105 Kenwood Ave.
Professor of Interpretation, Forensics, Physical Training.	
Elsie Vanderpool,	1039 W. 39th St.
Professor of Expression.	
Director of Physical Education for Women.	
Marion Bell Lamont,	804 W. 23rd St.
Professor of Dramatic Art, Shakespeare.	
Albert B. Ulrey, A.M.,	1435 W. 22nd St.
Professor of Physiology and Hygiene.	
James Main Dixon A.M., F.R.S.E.,	Hollywood
Professor of English Language and Literature.	
Harvey R. Holmes, Ph. B.,	3907 S. Grand Ave.
Director of Physical Education for Men.	
Stella Webster Morgan, A.B.,	934 W. 34th St.
Professor English Literature.	

Tully C. Knoles, A.B., Glendale
Professor of History.

COLLEGE OF FINE ARTS.

William L. Judson,
Dean.

Arley G. Tottenham,
Professor of Mechanical Drawing.

Kathryn McManaman,
Assistant Professor of Free-hand Drawing.

Vivien Stringfield,
Assistant Professor of Art.

Pearl Judson,
Secretary.

Alpha W. Anderson,
Field Secretary.

Benjamin C. Brown,
Examiner.

John W. Nichols,
Examiner.

COLLEGE OF PHARMACY.

Walter T. Taylor, Ph. C.,
Dean and Professor of Pharmacy.

Charles W. Hill, Ph. C.,
Professor of Materia Medica and Pharmacognosy.

Laird J. Stabler, M. S., Ph. C.,
Professor and Chemistry and Toxicology.

Albert B. Ulrey, A. M.
Professor of Botany.

Arthur Maas, Ph. C.,
Instructor in Pharmacy.

Erwin H. Miller, B. S.,
Lecturer on Food and Drug Adulterations.

Edward G. Kuster,
Lecturer on Pharmacal Jurisprudence.

Harvey R. Holmes, Ph. B.,
Director of Physical Education.

COLLEGE OF THEOLOGY.

Ezra A. Healy, A.M., D.D.,
Dean.

Eli McClish, D.D.,
Christian Evidences.

Rev. James Blackledge, A.M.,
Hebrew Language.

Robert McIntyre, D.D.,
Homiletics.

John G. Hill, A.M., S.T.B.,
English Bible.

Festus E. Owen, A.M.,
New Testament Greek.

James Main Dixon, A.M., F.R.S.E.
Professor of English Literature.

George B. Smythe, D.D.
Lecturer on Christian Missions.

THE COLLEGE OF LIBERAL ARTS

I—ADMISSION TO THE FRESHMAN CLASS.

1.—Admission by Certificate.

Candidates for admission to the freshman class must be at least sixteen years of age and must present evidence of good moral character. They must also give, either by certificate or by examination, evidence of preparation in 15 units of preparatory subjects selected from the general list of subjects described on pp. 28-32. These 15 units must be made up of the following:—

English,	2 units*
A Foreign Language,	2
Science,	2
Algebra and Plane Geometry,	2
History,	2
Electives,	5

The electives are determined entirely by the requirements for admission to the college course which the student desires to pursue.

For admission to the Engineering Course the 15 units must include the following:—

English,	2 units
A Modern Language,	2
Chemistry,	1
Physics,	1
Elementary Algebra,	1
Advanced Algebra,	1
Plane Geometry,	1
Trigonometry and Solid Geometry,	1
U. S. History and Civics,	1
Freehand Drawing,	1
Mechanical Drawing,	1
Electives,	2

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

Candidates who have completed a regular course in the Preparatory School of this University, or in an accredited high school, may be admitted to the College of Liberal Arts without examination, on presenting a certificate signed by the principal. Credit will be given only for entrance subjects in which the candidate is specifically recommended. Recommendations will be accepted from any school accredited by this University, Leland Stanford Junior University, or the University of California. The faculty reserves the right, however, to require an examination upon any or all of the studies set for entrance, whenever there is doubt that the preparation has been sufficient. The candidate should bring his certificate of recommendation when he presents himself for matriculation.

2.—Admission by Examination.

The regular examination for admission will begin Monday, September 14, 1908, when candidates will be examined in all the required admission subjects not covered by certificate from an accredited school.

3.—Conditional Admission.

Candidates may be conditionally admitted to the freshman class, if they are not deficient in more than twenty semester hours (two units) of preparatory work. They must, however, remove all such conditions before they may obtain junior standing.

Preparatory Subjects.

The following items will serve to indicate both the kind and the amount of work expected in the different preparatory subjects accepted for admission, as well as the units of credit allowed for the same.

1. English. A short essay on an assigned subject will be called for, with the purpose of testing accuracy in spelling, punctuation, division into paragraphs, and power of expression in clear and correct English.

The candidate will also be required to give evidence of a thorough study of elementary rhetoric and classic myths; and will be tested as to his knowledge of the subject-matter,

form and structure of the following works (or their equivalent):

Scott's *Lay of the Last Minstrel* and *Ivanhoe*; Hawthorne's *Tales of the White Hills*; Selections from Irving's *Sketch-book*; Lowell's *Vision of Sir Launfal*; De Coverly Papers; Coleridge's *Ancient Mariner*; George Eliot's *Silas Marner*; Carlyle's *Essay on Burns*; Macaulay's *Essay on Warren Hastings*; Tennyson's *Idylls of the King*; Shakespeare's *Merchant of Venice* and *Julius Caesar*. (2 units.)

2. Elementary Algebra. This should include the following subjects: The four fundamental operations with emphasis placed on the type-forms in multiplication and division, factoring, highest common factor, and lowest common multiple, fractions and fractional equations, simultaneous equations of the first degree, the binomial theorem for a positive integral exponent, evolution, theory of exponents, radicals, quadratic equations, and the solution of problems involving the various classes of equations. Emphasis should be placed on factoring and on the solutions of equations. (1 unit.)

3. Plane Geometry. This includes the usual theorems and problems of elementary plane geometry. An important part of the work should be the solution of original exercises including problems in mensuration. (1 unit.)

4. United States History and Civil Government. Channing, and Fisk, or an equivalent. (1 unit.)

5. Grecian and Roman History. Myers, or an equivalent. (1 unit.)

6. Physics. The equivalent of one year's work, including both laboratory and text-book work. Accurate notes of the laboratory work should be kept. Gage's *Elements*, or Carhart and Chute's *High School Physics* will serve to indicate the amount of text-book study required. (1 unit.)

7. Elementary Latin. For the requirements of Elementary Latin an accurate pronunciation is necessary, a thorough knowledge of regular forms and principles of syntax, a vocabulary of about fifteen hundred words, and the ability to translate easy prose at sight, and to write simple sentences. These attainments can be secured from the careful study of an elementary text-book and four books of Caesar, together with

oral and written composition and occasional practice in sight translation. The examination in composition in 1908-1909 will be based on the second book of Caesar's Gallic War. (2 units.)

9. Advanced Latin. For the requirements of Advanced Latin the ability to translate at sight portions of Cicero's orations and Vergil's Aeneid is necessary, familiarity with the principles of the Latin hexameter and the ability to translate a passage of connected English based on Cicero. These attainments can be secured from the careful study of six of Cicero's orations and six books of Vergil's Aeneid, together with very thorough drill in oral and written composition. It is expected that a certified composition book will be presented for entrance credit. The examination in composition in 1908-1909 will be based on the oration Pro Archia. (2 units; without the composition, 1 unit.)

10. Elementary Greek. Grammar and Lessons; Anabasis, book I-III; prose composition. (2 units.)

11. Advanced Greek. Anabasis book IV; Iliad, books I-III; prose composition; sight reading; review of the Grammar. (1 unit.)

12. German. A knowledge of the inflections of articles, nouns, adjectives, pronouns, weak verbs and usual strong verbs; also of the use of the modal auxiliaries, the common preposition, the simpler uses of the subjunctive, and the order of words; the reading and translation of stories and plays, such as Storm's Immense and Benedix's Der Prozess; translation of easy English into German, translation at hearing and pronunciation. (2 units.)

13. French. A knowledge of the essentials of grammar, including the inflections of nouns, adjectives, pronouns, regular and common irregular verbs; the use of personal pronouns and the elementary rules of syntax; ability to pronounce accurately and to read smoothly; translation of modern stories and plays, such as About's Le Roi des Montagues and Labiche and Martin's Le Voyage de M. Perrichon; translation at hearing and at sight; translation of easy English into French. (2 units.)

14. **Spanish.** Grammar, Garner, Monsanto or De Tornos; reading from Matzke's Spanish Readings, Knapp's Spanish Readings, Pepita Jiminez; translation of easy English into Spanish, and simple conversation in Spanish. Special importance attached to a knowledge of Spanish verbs. (2 units.)

15. **Mediaeval and Modern History.** Myers, or an equivalent. (1 unit.)

16. **English Literature.** With outline history of its development. Chaucer's Prolog; Gray's Elegy; Wordsworth's Tintern Abbey, and Odes on Intimations of Immortality and Duty; Milton's Minor Poems; Shelley's Odes To Night and To a Skylark; Keats Ode to a Nightingale; Browning's Epilogue to Assolando and Rabbi Ben Ezra; Burke's Conciliation; Webster-Hayne Debate; Shakespeare's Midsummer-Night's Dream and Macbeth. (1 unit.)

[Note: When a candidate shall offer, in addition to the above, an equivalent amount of other classics such as may be acceptable to the department of English, another unit will be granted.]

17. **Advanced Algebra.** This should include the following subjects: Mathematical induction; the proof and the use of the remainder and the factor theorem; the binomial theorem for a positive integral exponent; evolution, including the extraction of any root of algebraic polynomials, and also of arithmetic numbers; theory of exponents; complex numbers; radicals, and irrational equations; theory of quadratic equations; simultaneous quadratics; inequalities; ratio, proportion and variation; arithmetic, geometric and harmonic series. Emphasis should be placed on the solution of equations by factoring, and on the demonstration of laws and principles. (1 unit.)

18. **Trigonometry and Solid Geometry.** The development of the general formulae of elementary plane trigonometry; the theory of logarithms and the use of logarithmic tables; the numerical solution of plane triangles, and of simple problems in heights and distance. The fundamental propositions of solid geometry and especially those of spherical geometry. (1 unit.)

19. Botany. A study in the laboratory and field of types of plant groups. Drawings and notes made directly from the specimens must be submitted as evidence of the character of the work done. A full year's work. (1 unit.)

20. Zoology. One year's work on the structure, relationship and habits of animals. Laboratory note-books with drawings will be required. (1 unit.)

21. Physiology. An equivalent of Martin's Human Body, —Shorter course. (1 unit.)

22. Chemistry. Laboratory and text-book work for one school year, such as outlined in Remsen's Introduction to the Study of Chemistry, or Newell's Experimental Chemistry. At least four hours per week throughout the year is required of actual laboratory practice in order to complete the amount of laboratory work desired. (1 unit.)

23. Freehand Drawing. The study of light and shade and perspective by drawing and shading with pencil from geometric and simple still life objects. ($\frac{1}{2}$ to 1 unit.)

24. Mechanical Drawing. The use of drawing instruments in line work, the construction of geometrical problems, and simple detail drawing. ($\frac{1}{2}$ to 1 unit.)

Note—In the case of students graduated from a recommended high school credit may be allowed for such subjects, not designated in this list, as are recommended by the principal and approved by the University faculty.

Candidates who offer subjects in Science will be required to present their note-books in the same.

II ADMISSION TO ADVANCED STANDING.

Students from other institutions of recognized collegiate rank may be admitted to such standing and upon such terms as the Faculty may deem equitable, upon presentation of letters of honorable dismissal. Every such candidate is required to present a catalogue of the institution in which he has studied, with a full statement, duly certified, of the subjects he has completed, including subjects passed at entrance as well as those credited. The faculty reserves the right to determine, after a test of at least one semester, the amount of credit which a student may receive.

III ADMISSION AS SPECIAL STUDENTS.

Persons of maturer age who desire to take up special work in one department, or in one subject with its related branches, may be admitted as special students, without becoming candidates for a degree; but they may become candidates by satisfying the entrance requirements for a regular course. Such students come under the same regulations as regular undergraduates, and forfeit their privileges by failure to maintain a good standing.

MATRICULATION AND REGISTRATION.

On the first day of each semester, which is Registration Day, each student must register at the Registrar's office, and must enter upon a study card the subjects desired for the semester.

This card, properly filled out and approved by the major professor and the Registrar, must be filed in the office not later than one week from Registration Day; but late study cards will be accepted upon payment of a special fee of one dollar. A student desiring to enter any class must present his study card to the instructor for enrollment.

Students entering for the first time should present their credentials to the Registrar for credit and entry; otherwise they are required to pass examinations in the subjects necessary for admission to the class desired. In the choice of subjects, all work necessary to remove conditions must be provided for first; and required subjects should take precedence of elective subjects.

GRADUATION.

THE DEGREE OF BACHELOR OF ARTS.

The College of Liberal Arts offers as many courses from which the student may elect as there are departments in which a major is offered.

Each course the student may pursue is designed to give a liberal education and except in the Engineering courses, (see p. 72) leads to the degree of Bachelor of Arts (A.B.)

The student must complete one hundred twenty-four semester hours of college work, which includes the required subjects, a major in one department, and a related minor.

A semester hour means one exercise a week throughout a semester. It is intended that each hour of credit shall represent, for the average student, one hour of recitation or lecture, and two hours of preparation or subsequent reading per week, or an equivalent amount of work in laboratory courses.

Fifteen hours per week of recitations or lectures, or their equivalent in laboratory work, constitute an average semester's work. Students may register for as few as thirteen or as many as eighteen hours by making application to the Registrar.

REQUIRED SUBJECTS.

In all the courses except in the Engineering Courses, in which the student is a candidate for the bachelor's degree he must complete work as follows:

English, Rhetoric I., one year, six hours.

Science, one year, eight hours. (The elective may be Chemistry, Zoology, Physics or Botany.)

Mathematics, one year, six hours.

Philosophy, one year, six hours.

Language, two years, twelve hours. (The elective may be Latin, Greek, German, French, Spanish or Italian.)

Physical Education, four hours.

The Freshman year should be devoted to the completion of thirty hours of these required subjects.

In the Engineering Courses the work of the four years is required as outlined on pp. 72 and 81.

MAJOR AND MINOR SUBJECTS.

Each under-graduate student must select the work of some one department as his major subject, but the selection may be deferred until the second year. The requirements for major work, which range from a minimum of twenty-four to a maximum of thirty hours are stated elsewhere under Courses of Instruction. An equivalent of ten hours' work must be taken in a related subject, known as the minor sub-

ject, and selected with the approval of the major professor.

Where a student who has already selected his major subject desires to change it, and is able to meet the requirements of the new major subject, the change can be made, if approved by the professor of the old and new major subjects.

ELECTIVE SUBJECTS.

Except for the above required subjects, and the requirements of the major and minor subjects the work required for graduation is elective; but the student will confer with the professor of the major subject, as well as with the President of the University, in selecting such subjects as bear some useful relation to the course he is pursuing.

CLASSIFICATION OF STUDENTS.

Students who have no entrance conditions, and who have completed thirty semester-hours of the freshman year, are classed as sophomores.

Those who have completed sixty semester-hours are classed as juniors.

Those who have completed ninety semester-hours are classed as seniors.

Students who have completed one hundred twenty-four semester-hours, including all required work, and a major in one department with a related minor are entitled to receive the degree of Bachelor of Arts.

AFTERNOON AND SATURDAY COURSES.

In 1908-1909 courses planned specially for teachers will be offered in the late afternoon and on Saturday. Information concerning the courses already planned can be obtained upon application. Other courses may be offered if desired.

ABSENCE FROM EXERCISES.

1. Excuse must be rendered for all absences from required exercises.

2. A student who is absent during a semester from more than one-tenth of the whole number of recitations or labora-

tory periods held in any subject shall be required to pass a special examination in that subject.

3. Where a student is absent from more than one-sixth of the whole number of recitation or laboratory periods, held during a semester in any subject, his registration in that subject is thereby cancelled. In case of such cancellation, however, if the student can show cause for his absence, and if his previous standing be such as to indicate that he can make up his loss and maintain a satisfactory grade of work in the subject, he may present his case to the Faculty and have his registration restored.

In applying this rule absence from the first or last recitation in a study, or consecutive absences in which either the first or last recitation is included, will be counted each as two absences.

4. Students are required to attend three-fourths of all chapel exercises.

EXAMINATIONS AND GRADES.

Regular examinations are held at the close of each semester in the studies that have been pursued in different classes. After the examinations, the parent or guardian of every student receives from the office a report, giving the student's standing for the semester. The general character of the work of the students in their several subjects is indicated by one of six grades, ranging from grade A, denoting the highest excellence, through B, C, D, E, in a descending scale of merit to F, which signifies failure to pass.

A student whose work in a subject is marked conditioned or incomplete is delinquent in that subject. Such delinquency must be made up, in such manner as the instructor may determine, before the close of the semester next after that in which the delinquency occurs. If the delinquency be not thus made up, the student is required to take the subject again with a class before he may receive credit for the same. A grade F may be removed only by taking the subject in class again.

THE DEGREE OF BACHELOR OF ARTS AND THE DEGREE OF DOCTOR OF MEDICINE.

A credit of thirty (30) to sixty (60) hours is granted on the course leading to the degree of Bachelor of Arts (A.B.) in the College of Liberal Arts on completion of the Medical course of the University. The degree will be conferred at the close of the college year in which the medical degree is granted.

The number of hours credit is determined by the character of the work done by the student.

The applicant must have completed a minimum of eighteen hours work in the College of Liberal Arts of this University.

He must meet the conditions as to required subjects in the College of Liberal Arts.

He must matriculate at the College of Liberal Arts for two years.

Students electing the combined course leading to the degree A.B. and M.D., are supposed to have completed a course similar to course C. or D. in the Preparatory School of the University, that is, requiring Drawing, Chemistry and Physics. At least one year of Latin is also required. (Any of these subjects not offered for entrance should be taken the first year.)

The required subjects in the College of Liberal Arts are the same as those for the regular candidate for the degree A.B., except that Zoology should be the elected Science, and German, the elected Language (provided Latin has been offered for entrance.)

The Pre-medical Course, (including required subjects) is outlined as follows:—

Freshman Year.

English, Rhetoric I., throughout the year, 3 hours.

Science, Zoology, throughout the year, 4 hours.

Mathematics, throughout the year, 3 hours.

Language, German (if Latin has been offered for entrance) throughout the year, 5 hours.

Elective, throughout the year, 3 hours.

Total, 18 hours.

Sophomore Year.

Philosophy, Psychology, throughout the year, 3 hours.

Language, German, throughout the year, 3 hours.

Elective, (Biology, English and History specially recommended,) throughout the year. 12 hours.

Total, 18 hours.

The regulations for the current year shall prevail concerning fees.

THE DEGREES OF A.B. AND LL. B.

When a student with full entrance credit in the College of Liberal Arts has received 94 semester hours (including all required subjects) and of these has taken not less than 72 in the College of Liberal Arts of the University of Southern California, he may upon the satisfactory completion of the professional course in the College of Law receive both degrees, Bachelor of Arts and Bachelor of Laws.

THE DEGREE OF BACHELOR OF SCIENCE IN THE ENGINEERING COURSES.

For requirements, etc., see p. 72.

THE DEGREE OF MASTER OF ARTS.

The degree of Master of Arts (A.M.) is conferred upon graduates of the College of Liberal Arts of the University and upon others who have had an equivalent training elsewhere on completion of an approved course of graduate study equivalent to thirty semester hours.

Candidates who pursue this advanced study in residence at the University may receive the degree as early as one year after graduation. Those who do not pursue the study in residence may receive the degree not earlier than two years after graduation.

At least sixteen semester-hours of the work offered for the Master's degree must be chosen from one department, in which the candidate has previously completed the under-graduate major work, or an equivalent. This advanced work will be the major subject. Six semester hours must be taken in some department other than the major. This will be the minor

subject. The remainder of the work may be chosen from any department approved by the Faculty.

The Master's degree may designate the special course pursued—e. g., Master of Arts in Science.

Resident candidates must register not later than the first Tuesday in October next preceding the date of the final examination. Non-resident candidates must register one year earlier.

A thesis embodying the results of investigation on an approved subject in the major department must be submitted and be approved by the major professor before the candidate may be recommended for a degree.

The subject for the thesis must be submitted to the Faculty for approval through the major professor not later than January 10, and the completed thesis not later than the last Saturday in May, of the year in which the degree is desired. The thesis must be typewritten on paper 8½x11 inches in size, and a copy of the same deposited in the Library.

THE DEGREE OF MASTER OF ARTS AND THE DEGREE OF DOCTOR OF MEDICINE.

Upon students who complete the course in the College of Medicine of the University after receiving the Bachelor's degree from the College of Liberal Arts or other institutions approved by the College, the degree of Master of Arts will be conferred on the following conditions:

1. A candidate for the degree of Master of Arts who is at the same time pursuing the regular course in the College of Medicine must matriculate in the College of Liberal Arts at least two years before receiving the Master's degree. The degree of Master of Arts may then be granted at the same time the candidate receives the degree of Doctor of Medicine.

2. The candidate's research work must be planned in conjunction with the Committee on Graduate Study in the College of Liberal Arts.

Reports of progress in the research work shall be made at such times as may seem advisable to the Committee. The results of such work must be embodied in a thesis approved by the Committee on Graduate Study.

3. The regulations of the College of Liberal Arts for the current year shall prevail concerning fees and thesis.

THE DEGREE OF CIVIL ENGINEER AND THE DEGREE OF ELECTRICAL ENGINEER.

For requirements, etc., see p. 72.

EXPENSES.

Undergraduate Study.

Tuition per semester, payable in advance	\$35.00
Tuition per year (two semesters) if paid in advance	67.00
Tuition for six to ten hours per semester	25.00
Tuition for five hours or less, per semester	17.00
Gymnasium and physical education without other studies, per semester	8.00
Registration fee included in the above, but not subject to rebate	5.00
Diploma Fee	5.00
Laboratory fees, per semester:—	
Each course in Chemistry requiring laboratory work	8.00
Assaying	30 to 50.00
Physics:—	
1 & 2 each	4.00
3 Mechanical	4.00
4 Shop	4 to 6.00
6 Electrical Measurements	6.00
Electrical Engineering:—	
2 & 7 Dynamo Laboratory, each	8.00
Each course in Biology requiring laboratory work	4.00
Surveying, field work, per semester	2.50

An account is kept of breakage and an additional charge made therefor.

An additional deposit of five dollars to cover breakage is required in Chemistry. This deposit, less cost of breakage is refunded at the end of the year.

Students who are recommended by a quarterly conference as acceptable candidates for the ministry; young women who are recommended for the work of deaconness by a quarterly conference and by the Conference Board of Deaconesses; and the sons and daughters of ministers in the regular work of any evangelical denomination, may have their tuition fee reduced to one-half the regular rate.

A discount of ten per cent. of the tuition will be allowed when two or more students enter from the same family.

Tuitions paid in advance will be refunded proportionately should the student be forced to leave school. No refund will be made for an absence of less than half a semester.

Graduate Study.

Tuition per semester, payable in advance	\$35.00
Registration fee included in above . . .	10.00
Diploma fee	10.00

Students who have received the Bachelor's degree from the University of Southern California will pay only ten dollars per semester and the diploma fee.

The Hodge Hall and University Boarding Clubs furnish board for young men at very reasonable rates. Information concerning membership in these clubs can be obtained upon application.

A dormitory is provided for the young ladies where wholesome board and cozy rooms can be obtained at reasonable rates.

Board and furnished rooms can be secured in private families at from three to seven dollars per week. Furnished rooms accommodating two students cost from four to twelve dollars per month.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not of necessity so great as to be burdensome to persons in moderate circumstances.

The Information Bureau of the Young Men's Christian Association of the University has secured employment for a large number of students, thus enabling them to meet part of their expenses.

COURSES OF INSTRUCTION

BIOLOGY.

Professor Albert B. Ulrey.

Assistant Professor, Nelle Lancaster (Zoology).

Assistant Professor, Andrew C. Life (Botany),

Laboratory Assistants, Chester H. Bowers, Willis H. Rich.

Courses adapted to the needs of students who do not major in biology but desire some knowledge of organic nature and training in scientific methods are: General Zoology or General Botany and Bionomics.

Major Work: (a) **Animal Biology**, courses 1-6; General Biology, courses 1 and 2; (b) **Plant Biology**, courses 1-5; General Biology, courses 1, 2 and 6. Students with special needs may substitute certain biological courses for those regularly scheduled.

The courses in General Zoology, General Botany and Bionomics will be offered each year. Other courses given will be determined by the available time of the instructors and the needs of the students of the department.

Two or more assistants are selected each year from the advanced students of the department who maintain a high standard of scholarship and are otherwise qualified for the work.

ANIMAL BIOLOGY.

1. **General Zoology.** Laboratory study of representative types of invertebrate and vertebrate animals from the simplest to the most complex. A series of lectures co-ordinating the laboratory work and dealing with the general problems of biology. The course includes a study of animal structure, functions, relationships and adaptation to environment. The student receives instruction in the use of the microscope,

dissecting apparatus, and is directed in the study of animals in their native environment. Eight hours laboratory work and lectures per week, throughout the year. **Four hours, both semesters.** 2-3:50, Monday, Tuesday, Wednesday, Thursday.

2. **Histology.** The microscopic anatomy of animal tissues. Methods of preparation of tissue with practice in fixing, sectioning, staining and mounting. Laboratory work, lectures and recitations, six hours per week, one semester. Prerequisite Course 1. **Three hours either semester.**

3. **Embryology.** The general course of development of one of the higher vertebrates. Special study of the early stages of development of the organs. Embryological methods and practice in serial sectioning. The lectures deal with the general problems of embryology. Six hours per week, one semester. Prerequisites Courses 1 and 2. **Three hours, either semester.**

4. **Physiology.** Lectures, laboratory work and recitations on the activities of living organisms. Special study of the physiology of the human body. Six hours per week, one semester. Prerequisites Course 1 or Plant Biology 1. **Three hours, first semester.** 8-9:50, Monday, Wednesday, Friday.

5. **Anatomy of Vertebrates.** Dissection of types of the higher vertebrates; quizzes, recitations and lectures. The course is primarily for preparatory medical students. Six hours per week are required in the laboratory, one semester. Prerequisite Course 1. **Three hours, either semester.**

6. **Systematic Zoology.** The course deals with certain groups of vertebrates with special reference to morphology and relationships. Laboratory study, field work and lectures. Six hours per week, one semester. Prerequisite Course 1. **Three hours, either semester.**

7. **Advanced Physiology.** This course is given in the College of Medicine.

8. **Special Zoology.** Investigation of some topic of limited scope. This course is planned to meet the needs of each student prepared to pursue it. Six hours per week, throughout the year. Prerequisite Courses 1, 2, 3, 4 and 5, or their equivalent. **Three hours, both semesters.**

PLANT BIOLOGY.

1. **General Botany.** The course comprises a study of typical plants representing the vegetable kingdom. The first semester as well as a part of the second is devoted to Thallophytes and Archegoniates; the remainder of the second semester to Spermatophytes. Laboratory study, field work and lectures. Eight hours per week throughout the year. **Four hours, both semesters.** 10:25-12:10, Monday, Tuesday, Wednesday and Thursday.

2. **Plant Anatomy and Histology.** The minute structure of the systems of tissues. Microscopical technique in preparing permanent mounts. Laboratory work and lectures. Six hours per week, one semester. Prerequisite Course 1. **Three hours, either semester.**

3. **Plant Physiology.** Experimental work on the physiology of plants, lectures and supplementary reading. Six hours per week, one semester. Prerequisite Course 1. **Three hours, either semester.**

4. **Morphology of Bryophytes and Pteridophytes.** A critical morphological study of typical representatives of Bryophytes and Pteridophytes, their development from the germinating spore to the adult. Special attention is given to the relationships of the groups as indicated by their structure, and to the phases of alternation of generations illustrated by the types studied. Six hours per week, one semester. Prerequisite General Botany. **Three hours, either semester.**

5. **Ecology and Taxonomy.** A study of flowering plants (spermatophytes) in the local flora. The course deals with the relationship of plants to their environment; affinities indicated by their structure, and a brief consideration of pedigree-cultures. Six hours per week, one semester. Prerequisite General Botany. **Three hours, either semester.**

GENERAL BIOLOGY.

1. **Bionomics.** A course of lectures dealing with the general principles of biology. The problems of inheritance, development and sex are considered from the cytological standpoint throughout the first semester. Variation, heredity,

selection, regeneration and kindred topics are studied during the second semester. Two hours per week, throughout the year. Prerequisite General Zoology or General Botany. **Two hours, both semesters. 8:55, Tuesday and Thursday.**

2. **Bacteriology.** The course consists of a study in the laboratory and by means of lectures of the nature of the bacterial organism; its relation to disease, methods of cultivating and isolating; inoculation experiments, staining of sections, examination of water, etc. Six hours per week, one semester. Prerequisite Botany. 1. Or Zoology. 1. **Three hours, either semester.**

3. **Hygiene and Sanitary Science.** A course of lectures and laboratory demonstrations on (a) the improvement and preservation of health, and (b) the applications of science in the home. Open to all students. **Two hours, either semester.**

4. **Nature Study.** A series of illustrated lectures on the study of living objects. The course affords opportunity for the student to learn something of the more common objects of nature and how to study them profitably. Open for credit to students who have not previously pursued any courses in biology. **Two hours, either semester.**

5. **Experimental Biology.** The course consists of a series of experiments on organisms to determine their response to conditions varied from those normal to the plant or animal. (a) Variation; (b) Hybridization; (c) Regeneration. The work must be continued throughout one year. It may be made the basis of a graduation thesis. Prerequisite, eighteen hours of Biology. **Three hours, both semesters.**

6. **Seminar.** The advanced students and instructors of the department meet two hours per week for reports on special investigation and present-day problems of biology. **Two hours, both semesters.**

7. **Journal Club.** Reports on the current literature of biology, one hour per week throughout the year.

CHEMISTRY.

Professor Laird Joseph Stabler.

Assistant Professor Ethel W. Graves.

Laboratory Assistants, Guy W. Buckmaster, De Witt H. O'Brian, Monroe Merrill.

Courses 1, 2, 3 and 4 are prerequisite to all other courses in Chemistry.

In all laboratory courses except Course 14, a laboratory deposit of thirteen dollars per semester for each course is required. Of these charges, five dollars per semester, less breakage, is returnable. In Course 13 a fee of twenty dollars is charged, and in addition a deposit of ten to thirty dollars is required to cover cost of material consumed.

1. General Inorganic Chemistry—Non-metals. Lectures and recitations with illustrative experiments, and study of a manual. Smith's General Inorganic Chemistry. Usual prerequisite, Articulation Chemistry. To be taken in connection with Course 3. **Three hours, first semester. 1:05, Wednesday, Thursday, Friday.**

2. General Inorganic Chemistry—Metals. A continuation of Course 1, together with an introduction to the study of Qualitative Analysis. To be taken in connection with Course 4. **Three hours, second semester. 1:05, Wednesday, Thursday, Friday.**

3. General Inorganic Chemistry—Laboratory. A series of experiments illustrating the general laws of chemical action, and designed to supplement Course 1 and be taken in connection with it. Laboratory Guide, Alexander Smith's Outline of General Chemistry. Six hours per week in the laboratory. **Two hours, first semester. 1:05-3:50, Monday, Tuesday.**

4. Qualitative Analysis. A laboratory course in elementary qualitative analysis, with occasional lectures and recitations. Prescott's Qualitative Analysis. Six hours per week in the laboratory. **Two hours, second semester. 1:05-3:50, Monday, Tuesday.**

5. Quantative Analysis. Laboratory practice in gravimetric and volumetric determinations, with occasional lectures and

recitations. Olsen's Quantitative Chemical Analysis. Nine hours per week in the laboratory. **Three hours, both semester.** Hours to be arranged.

6. Advanced Qualitative Analysis. A laboratory course involving difficult qualitative separations, and detection of some of the rare elements. Weekly lectures and discussions. Prescott and Johnson's Qualitative Analysis is recommended for reference. **Three hours, either semester.** Hours to be arranged.

7. Organic Chemistry. Lectures and recitations on the chemistry of the carbon compounds. Remsen's Organic Chemistry. **Two hours, both semesters.** 1:05, Monday, Tuesday.

7a. Organic Preparations. A laboratory course in the preparation of typical carbon compounds. Open to students who have completed Courses 1, 2, 3, 4, 5 and 7. **Two hours, both semesters.** Hours to be arranged.

8. Mineral Analysis. Gravimetric and volumetric analysis of representative minerals, ores and alloys. Prerequisite, Course 5. **Four or five hours, either semester.**

9. Physical Chemical Measurements. A laboratory course in physical-chemical methods. Molecular and atomic weight determinations by vapor density, boiling-point and freezing-point methods. Determination of conductivity of electrolytes, reaction velocity, isothermal and chemical equilibrium. Prerequisite, Course 5. **Two hours, either semester.**

10. Quantitative Analysis of Agricultural Products. Systematic analysis of fertilizers, dairy products, etc. Prerequisite, Course 5. **Four or five hours, either semester.**

11. Medical Chemistry. A laboratory course, including urine analysis, toxicology and food analysis. Designed especially for students looking forward medicine or pharmacy. Open to students who have completed or are taking Courses 5 and 7. **Three hours, either semester.**

12. Food Analysis. A laboratory course in Chemistry of meat and meat products, edibles and fats, dairy products, cereal products, saccharine products, canned vegetables, cocoa, tea, coffee, spices vinegar, flavoring extracts, fruits and fruit products, fermented and distilled liquors, baking powders,

food preservatives and coloring matter. Open to students who have completed Courses 5 and 7. **Two hours, either semester.**

13. **Assaying.** This course comprises silver and gold extraction by scorification and crucible methods; fire assay of copper, lead and tin, extraction of gold from ores by the amalgamation, the chlorination, the cyanide and the electrolytic process. **Two hours, either semester.** Hours to be arranged.

14. **Seminary.** Papers and discussion on assigned topics, with lectures on subjects of general chemical interest. Open to advanced students. **One hour, both semesters.**

Major Work: Sixteen semester hours in addition to courses 1-4.

ECONOMICS AND SOCIOLOGY.

Professor Gilbert W. Deniston.

Hours of recitation for the courses in Economics and Sociology will be announced in September, 1908.

Economics.

1. **The Elements of Economics.** A general introduction to economic study, based upon a text book and supplemented by lectures and assigned readings. The main topics studied are: the nature of economic wants; the nature of value; the factors of production; the forces determining the share of product distributed as rent, wages, profit and interest. **Three hours, first semester.**

2. **Public Finance.** A general course dealing with the principles of public revenue, public expenditure and financial administration. **Three hours, second semester.**

3. **Money and Banking.** The origin of money, its history and functions with a comparative study of leading banking systems. Prerequisite, Economics 1. **Three hours, first semester.** (Omitted in 1908-9.)

4. **Economic Geography.** A survey of the history and present status of industry and commerce in the principal countries of the world, the natural advantages each possesses in the world market and the policies they have pursued in developing them. Special attention is given to American re-

sources and commerce. Prerequisite, Economics 1. **Three hours, second semester.** (Omitted in 1909.)

5. Transportation and Communication. This course deals with the development and the economic functions of modern systems of communication. Special attention is given to American waterways and railways. **Three hours, first semester.**

6. Labor Problems. The important labor problems of the day, strikes, trade-unions, arbitration, immigration, child labor, etc. **Three hours, second semester.**

7. The History of Economic Thought. The development of economic theory from classical antiquity to the present time, with a discussion of existing schools of economic thought. Open only to advanced students. **Two hours, both semesters.**

8. Distribution of Wealth. A comparative study of theories advanced by the leading economists and the relation of the fundamental institutions of the social order to the distribution of wealth. Open only to advanced students. **Two hours, both semesters.**

Sociology.

1. Social Problems. A study of the laws of population, the growth of cities, tenements, social settlements, the liquor problem, and other questions of present interest. **Two hours, first semester.** Professor Deniston.

2. Charities and Corrections. A study of social pathology. During the semester the class visits the most important charitable and reformatory institutions in Los Angeles and vicinity to study the methods of dealing with dependents and delinquents. **Two hours, second semester.** Professor Deniston.

3. Principles of Sociology. The origin, growth, structure, and activities of society. Social institutions such as the family, the state, religion, property, and contract will be studied with a view to finding out their relation to social progress. **Three hours, first semester.** Professor Deniston.

4. **Social Theories.** A study of the writings of the four main groups of social reformers and the tendencies of present day thought. Three hours, second semester.

Professor Deniston.

5. **Problems of the New Orient.** a. The history of Japan from legendary times. Japanese ideals and social conditions. The aborigines of Japan in Yezo and Sakhalin. The new industrialism and imperialism. Text book: Chamberlain's "Things Japanese."

b. The Chinese race, its origins, history and ideals. Manchu influences. The meeting of Orient and Occident. Possibilities latent in the Chinese people. Text book: Arthur Smith "Chinese Characteristics."

c. Korea as influencing and influenced by China and Japan. Two hours, both semesters. (Omitted in 1908-9.)

Professor Dixon.

Major Work: Twenty-four semester hours.

ENGLISH.

Professor James Main Dixon.

Associate Professor Stella Webster Morgan.

Dr. Ezra A. Healy, Lecturer in English Literature,

Nancy K. Foster, Lecturer on Nineteenth Century Poets.

A.

Rhetoric.

1. **Rhetoric and Themes.** First Semester devoted to expository writing based on Wendell's English Composition. Second semester, detailed study of the Forms of Discourse, following Hersey, Nutter and Greenough's Specimens of Prose Composition. Three hours, both semesters. Required of freshmen, Sec. A, 11:20 Monday, Wednesday, Friday; Sec. B, 1:05 Monday, Wednesday, Friday. Professor Morgan.

2. **The Literary Laws of Journalism**, with practice in writing editorials. Text: *The King's English* (Oxford University Press.) **Two hours, first semester, 1:05 Monday, Wednesday.** Professor Dixon.

3. **The Preparation of Orations and Briefs for Debate.** Shurter's *Masterpieces of Modern Oratory*. **Two hours, second semester, 1:05 Monday, Wednesday.** Professor Dixon.

4. **Seminar in Rhetoric**, with systematic practice in theme-reading. Open only to advanced students of approved standing. **Two hours, either semester, hours to be arranged.** Professor Morgan.

B.

Philology.

1. **Sources of the English Language and Early English Grammar.** Texts: C. Alphonso Smith's *Old English Grammar*; Johnson's *English Words*. **Two hours, first semester, 2:00 Monday, Wednesday.** Professor Dixon.

2. **Early English Poetry.** *Boewulf*, *Caedmon*, *Crow's Maldon* and *Brunanburh*. **Two hours, second semester, 2:00 Monday, Wednesday.** Professor Dixon.

3. **Middle English, including Chaucer.** Text: O. W. Emerson's *Middle English Reader*. **Two hours, second semester, 2:00 Friday (second hour to be arranged.)** Professor Dixon.

4. **Early English Gospels and Christian Literature.** **Two hours, first semester.** Carpenter's *Anglo-Saxon Grammar and Reader*. *St. John's Gospel in West Saxon*. **2:00 Friday (second hour to be arranged.)** Professor Dixon.

5. **Burns and Northern English Dialects.** Dow's *Burns in Athenaeum series*. **Two hours, first semester, 2:00 Tuesday, Thursday.** Professor Dixon.

C.

English Literature.

1. **General Survey of English Literature.** Crawshaw's *The Making of English Literature*. Prerequisite for elective courses. **Two hours, both semesters, 1:05 Tuesday, Thursday.** Professor Dixon.

2. **General Survey of American Literature.** Wendell and Greenough's History of Literature in America. Assigned readings and reports. **Two hours, first semester.** 2:00 Tuesday, Thursday. Professor Morgan.

3. (A) **Eighteenth** and (B) **Nineteenth Century Prose.** Henry Craik's English Prose, Vols. IV. and V. **Two hours, both semesters.**

(Courses 3 may alternate with courses 14.) 10:25 Tuesday, Thursday. Professor Dixon.

4. **The Short-Story.** Brander Matthews' The Short Story, Cody's World's Greatest Short Stories. Lectures and class discussion. Each member of the class writes one original story. **Two hours, first semester,** 8:55 Monday, Wednesday. Professor Morgan.

5. **The Technique of the English Novel.** Whitcomb's Study of the Novel, with analysis of one of George Eliot's or Thackeray's works, and comparative study of other novels. Class discussions, with required reports based on critical reading. **Two hours, second semester.** 8:55 Monday, Wednesday. Professor Morgan.

6. **Milton's Epic and Dramatic Poems.** Text: Cambridge edition of Milton's Complete Works. **Two hours, first semester.** 2:55 Wednesday, Friday. Professor Dixon.

7. **Nineteenth Century British Poets.** First semester, Wordsworth, Shelley and Keats. Second semester, Browning, Tennyson, Rossetti and Arnold. **Three hours, both semesters.** 10:25 Monday, Wednesday, Friday.

Professor Dixon, Miss Foster.

8. **Pre-Shakespearian Drama.** Manly's Specimens of Pre-Shakespearian Drama, Vols. 1 and 2. Lectures on the History of the Drama, with critical reading of plays. **Two hours, second semester.** 1:05 Tuesday, Thursday. Professor Morgan.

9. **Comparative Study of the Drama.** Lectures on dramatic law and technique, with critical study of Greek, Latin, French, and German Drama through English translation. **Two hours, first semester.** 8:55 Tuesday, Thursday. Professor Morgan.

10. **Shakespeare.** Critical study of six plays: As You Like It, The Tempest, Romeo and Juliet, I Henry IV, Mac-

beth and Hamlet. **Three hours, second semester.** 8:55 Tuesday, Thursday, 8:00 Friday. Professor Morgan.

11. **Seminar in Versification.** A study of the laws of English Prosody. Professor Dixon is assisted in this course by Professor Pemberton of the College of Music, who presents the Musical Basis of Verse. **Two hours, second semester.** Hours to be arranged.

12. **Seminar. Methods of teaching English in Secondary Schools.** Carpenter, Baker and Scott's Teaching of English, with supplementary reading in Chubb's Teaching of English. Discussion of special methods in English Composition and Rhetoric, and the English classics required for admission to the University. This course is for advanced students who expect to teach English. **Two hours, first semester.** 1:05 Tuesday, Thursday Professor Morgan.

13. **Browning.** Comparison of Browning's dramatic work with Shakespeare's, followed by a study of Browning's lyrical poems and monologues. **Two hours, both semesters.** 11:20 Monday, Wednesday. Miss Foster.

14A. **Thinkers and Movements in European Literature,** from the Reformation to the French Revolution. **Two hours, first semester.**

14B. **The History and Laws of Aesthetic.** Hirn's The Origin of Art. **Two hours, second semester.** (Courses 14 may alternate with courses 3.)

10:25 Tuesday, Thursday. Professor Dixon.

15. **The Schools and Vocabulary of Literary Criticism.** Bray's History of Critical Terms. **Two hours, second semester.** 11:20 Tuesday, Thursday. Professor Dixon.

16. **English Prose from Bacon to Bunyan.** **Two hours, first semester.** 10:25 Tuesday, Thursday. Dr. Healy.

17. **English Poetry from Dryden to Cowper.** Manly's English Poetry. **Two hours, second semester.** 10:25 Tuesday, Thursday. Dr. Healy.

18. **Chaucer. Literary Study of The Canterbury Tales.** **Two hours, second semester.** 2:00 Tuesday, Thursday.

Professor Morgan.

Major Work: Thirty semester hours, including Rhetoric 1.

Graduate Instruction.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH BIBLE.

Professor John G. Hill.

1. **The Pentateuch and Historical Books of the Old Testament.** Ethnic Cosmogonies; Semitic Tradition; Hebrew Archaeology; Comparative Ethics; Politics and Religion. **Two hours, first semester. 2:00, Tuesday, Thursday.**

2. **The Prophetic and Wisdom Books of the Old Testament.** Literary forms; connection of Israel's history with that of contemporary nations; Messianic prophecy and other relevant topics. **Two hours, second semester. 2:00 Tuesday, Thursday.**

3. **The Apostolic History and Literature.** Questions that agitated the Apostolic Church in conflict with Judaism, the Roman Government, and current systems of Philosophy. **Two hours second semester, 2:55 Tuesday, Thursday.**

4. **The Gospel History.** The social, political and religious life of the opening of the Christian era; the supernatural in the person and ministry of Christ; Christian Ethics. **Two hours, second semester. 2:55 Tuesday, Thursday.**

FRENCH.

Professor Edgar M. von Fingerlin.

1. **Fraser and Spuair's French Grammar.** The essentials of grammar; exercises in pronunciation, reading translation and composition. Dumas' *La Tulipe Noire* and Labiche's *Le Voyage de Monsieur Perrichon* or equivalents will be read in the second semester. **Five hours, both semesters. 10:25, Monday, Tuesday, Wednesday, Thursday and Friday.**

Course 1 is intended for students in the College who wish to begin the study of French.

2. **Modern French Reading.** Chateaubriand, Hugo, Balzac, Dumas, Canfield's Selection. Syntax. Composition. Open to students who have completed Course 1, or its equivalent.

lent, or who have credit for entrance requirement 11. **Three hours, both semesters.** 2:00, Monday, Wednesday, Friday.

3. **Classical French.** Selections from Corneille, Racine, and Moliere. Advanced French Composition. **Two hours, first semester.** 11:20, Tuesday, Thursday.

4. **Teachers' Course.** Study of sounds, voice, homonyms, synonyms, word-formation, methods of teaching French, and those niceties of the language in which, as long experience has taught, even advanced students are deficient. While primarily intended for teachers the course is open also to those who have finished Course 3. **Two hours, second semester.** 8:55 Tuesday, Thursday.

5. **History of French Literature.** A text book such as Doumic's *Histoire de la Literature Francaise* will be used. Lectures will be given in French. *Choses de France*. **Two hours, second semester.** 11:20, Tuesday, Thursday.

6. **Historical French Grammar.** A survey of the development of French syntax. Throughout the Course the French language will be used as much as possible and special attention given to exact pronunciation supported by explanations on phonetics. **Two hours, both semesters.** 1:05 Tuesday, Thursday.

It is the aim of the department to surround the student with a French atmosphere and to introduce him to the manner of speaking, thinking, and feeling of the people whose language he is studying, hence talks about France and the French as they are at home will be given in all classes.

Major Work: Courses 1-6.

GEOLOGY.

Professor.

1. **General Geology.** Study of a text, with observations on rocks and fossils from museum specimens and field excursions. **Two hours, both semesters.**

2. **Mineralogy.** Laboratory work, with blow-pipe analysis and chemical tests for minerals. Lectures and readings. **Two hours, both semesters.**

GERMAN.

Professor Margaret Graham Borthwick.

Assistant Professor Ruth W. Brown.

1. Elementary German. Pronunciation, reading and grammar, with practice in speaking and writing German.

This course includes the essentials of German grammar, with various practical exercises in dictation, composition, translation at hearing, and oral and written reproduction.

During the second semester some interesting short stories and characteristic poems are studied. **Five hours, both semesters.** 8:55, Monday, Tuesday, Wednesday, Thursday, Friday.

Course 1 is intended for students who enter without German. It covers the ground of preparatory subject 10.

2. Modern German. Modern narrative and dramatic prose, selected poems, and one drama of Schiller or Lessing. Grammar continued, with written and oral exercises. Letter writing and original compositions once every two weeks. Collateral reading. **Three hours, both semesters.** 8:00, Monday, Wednesday, Friday.

For students who have had course 1, or two years of High School German.

3. Scientific and Journalistic German. Rapid reading of scientific prose, also leading articles in German newspapers and magazines. Oral exercises. Written exercise once a week. **Two hours, both semesters.** 1:05, Tuesday, Thursday.

For students specializing in science. Open to those who have had course 2, or its equivalent.

4. Classical Writers. Dramas of Lessing, Goethe, and Schiller. Lyrics and Ballads. Lectures and conversation on the life and works of each author studied. One written exercise each week. **Three hours, both semesters.** 2:00 Monday, Wednesday, Friday.

Open to students who have had course 2, or its equivalent.

5. Teacher's Course. Review of grammar, with special emphasis on points necessary for teachers. Introduction to Viëtor's system of phonetics, with exercises in reading phonetic texts. Practice in pronunciation and in reading aloud.

Recitation of poems, and reading of dramas with assigned parts.

Written exercises in grammar and advanced composition. **Two hours, both semesters.** 2:00, Tuesday, Thursday.

Required of all students majoring in German. Open to those taking any course beyond 3.

6. **Schiller.** Chronological study of Schiller's life and works. Reading of one complete drama, probably Wallenstein, with selections from other dramas and the principal ballads. Collateral readings and practice in composition. **Two hours, first semester.** 1:05, Monday, Wednesday.

7. **Goethe.** Chronological study of Goethe's life and works. Readings from "Aus meinem Leben," and Goethe's lyrics and dramas. Collateral readings and practice in composition. **Two hours, second semester.** 1:05, Monday, Wednesday.

8. **Nineteenth Century Literature.** Representative dramas and novels from Grillparzer, Hauptmann, Freytag and Scheffel. Open to students who have had course 4, or its equivalent. **Three hours, first semester.** (Course 8, alternates with course 6, and will not be given in 1908-1909.)

9. **Goethe's Faust.** Interpretation and discussion of both parts, with short historical introduction and collateral reading of Marlowe's Faust and of the Puppenspiel. **Three hours, second semester.** (Course 9, alternates with Course 7, and will not be given in 1909.)

Major Work: Courses 1-9.

GREEK.

Professor Festus E. Owen.

1. **Beginning Greek.** White's First Greek Book thoroughly mastered. Book I of Xenophon's Anabasis translated. Practice in sight reading from Book II. Pearson's Greek Prose Composition used in connection with the Anabasis. **Five hours, both semesters.** 11:20 Monday, Tuesday Wednesday, Thursday, Friday.

2. **Xenophon's Anabasis.** Books II-IV translated. Thorough grammar drill. Daily practice in reading at sight. Pear-

son's Greek Prose Composition used daily in connection with the text. **Five hours, first semester.** 10:25 Monday, Tuesday, Wednesday, Thursday, Friday.

Homer's Iliad Books I-IV read and translated, Books V-VI read at sight. Special attention given to Homeric forms, scansion, and mythology. Prose Composition and Grammar review. **Five hours, second semester.** 10:25 Monday, Tuesday, Wednesday, Thursday, Friday.

(Students planning to major in Greek, but who offer but two years of Greek for entrance, are required to take course 2, second semester, in addition to courses prescribed for major work.)

3. **Lysias.**

(a) Select orations. Review of Grammar. Prose Composition based on the text. A study of Greek Oratory is made through collateral reading from Murray, Jebb and Wright.

(b) **Lucian.** Selections for rapid reading. Brief study of the Literature of the Decadence. **Four hours, first semester.** 2:55 Monday, Tuesday, Wednesday, Thursday.

4. **Plato.** Apology and Crito with selections from the Phaedo.

Lectures on Greek Philosophy and Plato's ethics in relation to modern thought. **Four hours, second semester.** 2:55 Monday, Tuesday, Wednesday, Thursday.

5. **Xenophon's Memorabilia, Selections.** Plato's Gorgias and Protagoras.

A careful study is made through lectures and assigned readings of the history of Greek Philosophy up to Aristotle.

The aim of this course is to introduce the student to the study of Philosophy with reference to its history, its problems and its effect upon human life. **Three hours, both semesters.** 1:10 Monday, Wednesday, Friday.

(Omitted 1908-1909.)

6. **Greek Tragedy.**

(a.) Aeschylus—Prometheus.

(b.) Sophocles—Antigone.

A careful study of the development of the Greek Drama will be made through lectures and assigned readings. Special at-

tention given to the evolution of religious ideas and to the ethical tendencies in the Dramatists. **Three hours, first semester.** 1:10 Monday, Wednesday, Friday.

7. **Homer.** Odyssey, four to eight books. Study of the whole period of epic poetry. Collateral reading from standard histories of Greek literature—Jebb's "Introduction to Homer" and Arnold "On the Translation of Homer. Lectures on Homeric religious, social and political customs. **Three hours, second semester.** 1:10 Monday, Wednesday, Friday.

8. **Herodotus and Thucydides.** Selections. **Three hours, both semesters.**

Omitted 1908-1909.

9. **History of Greek Literature From Homer to Theocritus.** This course consists of lectures and recitations based on translations together with papers on assigned topics. Jebb's "Primer of Greek Literature," and "Murray's Ancient Greek Literature," will be used as general guides. The aim is to secure familiarity with the great masterpieces of Greek Literature as well as to gain a comprehensive grasp of the important facts of history. This course is of special value to those who expect to specialize in, or to teach English Literature. Open to all students. **Two hours, both semesters.** 8:55 Tuesday, Thursday.

Six hours credit will be given in Course 8, to those students not majoring in this Department. To those majoring in Greek, but four hours credit will be granted.

10. **New Testament Greek.** Reading of Luke's Gospel and selections from The Acts. **Two hours, both semesters.** Hours to be arranged.

Major Work: Courses 3 to 9.

HISTORY.

Professor Tully Cleon Knoles.

1. **English History.** With special reference to social and literary development. Text book: Green's "A Short History of the English People." Lectures, reports, collateral reading. **Both semesters.** 11:20 Tuesday, Thursday.

2. **Mediaeval Europe.** (a.) A general survey of ancient civilization, a discussion of the transition period.

b. From Charlemagne to the Renaissance. Test-books: Emerton's "Introduction to the Middle Ages," Emerton's "Mediaeval Europe." Lectures, bibliography making. **Both semesters.** 8:55 Monday, Wednesday, Friday.

3. **Modern Continental Europe.** Selected periods, including the French Revolution, and the organization of the German Empire. Text Books: Lowell's "Eve of the French Revolution," Andrew's "Historical Development of Modern Europe." **Both Semesters.** 11:20 Monday, Wednesday, Friday.

4. **Constitutional and Institutional History of the United States.** Text Books: Bryce's "American Commonwealth." Lowell's "Government and Parties in Continental Europe." Topical Investigations and reports. Lectures. **Both semesters.** 1:05 Monday, Wednesday, Friday.

5. **International Law.** The nature, sources and principles of international law, the influence of Christian civilization upon rules and the contribution of the United States to its development. **Two hours, both semesters.** Hours to be arranged. Professor Deniston.

6. **Government.** A study in the development of Governments. Lectures, Reading, Topical Investigation. **Both Semesters.** Hour to be arranged.

Major Work: Courses 1-4.

ITALIAN.

Prof. Edgar M. von Fingerlin.

1. **Grandgent's Italian Grammar.** La Parola Italiana by Comba. Bowen's First Italian Readings, Goldoni's *Il Vero Amico*, Grandgent's Italian Composition. **Three hours, both semesters.** 11:20 Monday, Wednesday, Friday.

2. **Manzoni's I Promessi Sposi.** Silvio Pellico's *Le Mie Prigioni* and other classics. Composition. **Two hours, both semesters.** 1:05 Monday, Wednesday.

3. **Dante, Tasso, Petrarca.** Advanced Composition. Lectures on Italian Literature. **Two hours, both semesters.** Hours to be arranged.

LATIN.

Professor Roy Edwin Schulz.

Assistant Professor Ruth W. Brown.

Instructor Hugh C. Willett.

1. **The Latin Language.** An elementary course designed for students in the College of Liberal Arts, who enter without Latin, and for students in the professional colleges who desire to meet the entrance requirements. In the second semester Caesar will be read by those intending to pursue the subject further; students of Medicine, Law, Dentistry, and Pharmacy will give special attention to the terminology of those subjects. **Five hours, both semesters.** 11.20 Monday, Tuesday, Wednesday, Thursday, Friday. Course 1 will not be counted as major work.

2. **Cicero.** De Senectute, Tusculan Disputations, Book I. Careful interpretation of the text with practice in reading aloud with proper phrasing and emphasis without translation and in translation at hearing. **Three hours, first semester.** 10:25 Monday, Wednesday, Friday.

3. **Horace.** An attempt will be made to gain an intimate knowledge of Horace through the reading of selections from the Satires, Epodes, Odes, Carmen Saeculare, and Epistles, and through lectures on the Augustan Age and Horace's contemporaries. Metrical reading, style and subject matter are given special attention. **Three hours, second semester.** 10:25 Monday, Wednesday, Friday.

4. **Latin Syntax.** A complete review in lectures and exercises of Latin syntax. The exercises are based on Cicero's De Senectute. The course is required of all registered for Course I. **Two hours, first semester.** 10:25 Tuesday, Thursday.

5. **Latin Prose Composition.** Special attention is given to sentence structure, word-formation, and synonyms. The exercises are based on Cicero's De Amicitia which is read at sight. **Two hours, second semester.** 10:25 Tuesday, Thursday.

6. **Latin Comedy.** During the semester at least one play of Terence and two of Plautus will be read. Special attention is given to early forms, meter, etc. Lectures on the development of Roman Comedy, on the Roman theater, on the presentation of plays and on Roman Life. **Three hours, first semester.** 8:55 Monday, Wednesday, Friday.

7. **Livy.** Selections from the extant books. Lectures on the history and literature of the period of foreign conquest. Reference reading in Mommsen, Niebuhr, etc. **Three hours, second semester.** 8:55 Monday, Wednesday, Friday.

8. **Cicero.** Letters. Lectures on the history of the Republic from B. C. 133 with special reference to contemporary events. **Two hours, first semester.** 8:00 Tuesday, Thursday.

9. **Tacitus.** Agricola and Germania, or selections from the Annals. Lectures on the history and literature of the early empire. **Two hours, second semester.** 8:00 Tuesday, Thursday.

10. **Advanced Latin Prose Composition.** Writing of essays and letters in Latin. Translation of passages from English writers. The style of Cicero, Livy and Tacitus studied and compared. **One hour, both semesters.** 2:00 Monday.

11. **History of Latin Literature.** Lectures on Latin Literature from Livius Andronicus to Boethius, with the interpretation of selections from all prominent authors. The course does not require a knowledge of Latin, and is open to students of all departments. Major students in the department will be required to do outside reading from text. **Two hours, both semesters.** 8:55 Tuesday, Thursday.

12. **Latin Poetry of the Republic.** Selections from Lucretius, Catullus, Ovid, Propertius and Tibullus studied largely with reference to thought and artistic form. **Two hours, first semester.** 2:00 Wednesday, Friday.

13. **Latin Poetry of the Empire.** Selections from Seneca, Martial and Juvenal. **Two hours, second semester.** 2:00 Wednesday, Friday.

14. **Teachers' Course.** The first semester will be occupied with a critical review of Latin forms and syntax, using

Bennett's Appendix as a text. The second semester will be occupied with lectures on the Pedagogical Value of Latin, the work of the four years in the secondary school, the place of Composition, Prosody, History, etc., in the study of Latin; visiting and reports from secondary school in the vicinity of Los Angeles; practice in teaching in the preparatory school of the University. Prerequisite, Philosophy 1.

Open to Juniors and Seniors. **Two hours, both semesters.**
2:00 Tuesday, Thursday.

15. **Seminar, Cicero.** After a careful survey of Cicero's life and works from sources the attention of the seminar will be centered on the philosophical works. In 1907-1908 the Tusculan Disputations were studied. In 1908-1909 the De Officiis will be given special attention. Hours to be arranged.

Major Work: Thirty semester hours, including Courses 4, 5, 10 and 11.

LIBRARY SCIENCE.

Miss Miller.

1. **Elementary Library Science.** The course consists of lectures and recitations covering library classification and cataloging, periodicals, government publications, bibliography and reference work, together with a survey of library history; it is especially designed to help the general student and reader in the most efficient use of any circulating library. **One hour, either semester.** Hours to be arranged.

MATHEMATICS.

Professor Paul Arnold.

Instructor Hugh C. Willett.

1. **Elements of Analysis.**—This course is intended primarily for those who wish to get a view of some of the principal fields of mathematics without doing to any great extent detailed work in these fields. It includes the fundamental laws of algebra with applications, an elementary course in plane trigonometry, the study of the fundamental ideas of analytic geometry and calculus, with applications of these ideas to problems in geometry; also a brief history of mathematics.

Three hours, both semesters. 8:55 Monday, Wednesday, Friday.

2. Algebra. Lecture and Text-book course. Mathematical induction, equivalent equations, surds and complex numbers, theory of quadratic equations, simultaneous quadratic and higher equations, ratio, proportion, variation, the progressions and other simple series, inequalities, permutations and combinations, the binomial theorem for any exponent, limits and infinite series, determinants, theory of equations.

In the lectures a careful study of the theory and development of algebra from the very beginning is taken up and proofs are given of all fundamental laws. **Two hours, both semesters.** 8:00 Tuesday, Thursday.

3. Trigonometry. Plane trigonometry and its applications, the trigonometry of the right spherical triangle and logarithms. **Three hours, first semester.** 1:05 Tuesday, Wednesday, Thursday.

4. Solid and Spherical Geometry. The fundamental propositions of the Euclidean geometry of space. **Three hours, second semester.** 1:05 Tuesday, Wednesday, Thursday.

5. Algebra and Trigonometry. This course is designed particularly for engineering students, and includes a review of algebra and plane trigonometry, as well as a thorough study of the fundamental principles of spherical trigonometry and the application of its formulae to the solution of spherical figures. Pre-requisite, Course 3 or entrance Trigonometry. **Three hours, first semester.** 8:00 Monday, Wednesday, Friday.

6. Plane Analytic Geometry. The analytic geometry of the straight line, the circle, and the conic sections, including a discussion of the general equation of the second degree, and some special examples in higher loci. **Five hours, second semester.** 8:00 Monday, Tuesday, Wednesday, Thursday, Friday.

7. Differential Calculus. Development of the fundamental principles and formulae, applications to various problems in geometry and analysis. **Four hours, first semester.** 11:20 Monday, Tuesday, Wednesday, Friday.

8. **Integral Calculus.** The general principles of the integral calculus are developed, and the usual applications made to centers of gravity, moments of inertia, and especially to geometry. **Three hours, second semester.** 11:20 Monday, Wednesday, Friday.

9. **Differential Equations.** **Three hours, both semesters.** Hours to be arranged.

10. **Descriptive Astronomy.** A general course, requiring only the mathematics of Courses 2-4. Open to students in the last two years of the college course. **Two hours, both semesters.**

Major Work: Twenty six semester hours.

MUSIC.

Professor Walter Fisher Skeelee.

Students who take harmony and theory, or advanced instrumental or vocal work in the College of Music may be allowed college credit for the same, but the credit shall in no case exceed eight semester hours, and will be given only upon the recommendations of the Dean of the College of Music.

ORATORY.

Professor Beulah Wright.

Associate Professor, Elsie Vanderpool.

Associate Professor, Gertrude Comstock.

Associate Professor, Marion Lamont.

1. **Vocal Expression.**

(a) Principles of expression, voice building and tone placing. Expression of the body. Interpretation of literature from the text. **Two hours, either semester.**

(b) Advanced vocal training and bodily expression. Interpretation from modern authors. Kipling, Van Dyke, Stevenson, Maclaren, and others. **Two hours, either semester.**

2. **Public Speaking.**

(a) Extemporaneous work. Preparation and delivery of short speeches such as talks on current public questions, toasts, discussions. **Two hours, first semester.**

(b) **Extemporaneous Work.** Preparation of briefs for debate, forensics, argumentations, lectures. **Two hours, second semester.**

3. **Oratory.** A study of masterpieces of oratory. Text, Sears' History of Oratory and Modern Eloquence. The preparation and delivery of one original oration. **Two hours, either semester.**

4. **Bible and Hymn Reading.** Vocal Expression of the Bible and Hymns, Voice building. Text, Curry's Vocal and Literary Interpretation of the Bible. **Two hours, either semester.**

5. **Vocal Interpretation:**

(a) **Lyric Poems.** Training of the Imagination. Studies in Tennyson, Burns, Browning, Wordsworth and others. **Two hours, first semester.**

(b) **Shakespeare:** Julius Caesar or Hamlet, As You Like it or Much Ado About Nothing. **Two hours, second semester.**

(Tuition for the above courses is payable at the Office of the College of Oratory.) (see Tuition College of Oratory.)

Provision is made for a special class in the principles of Expression, for those students who enter the college without the required Preparatory School work. This is an elementary course of two hours for one semester; no college credit will be allowed for it.

PHILOSOPHY AND EDUCATION.

Professor James Harmon Hoose.

Philosophy.

1. **Psychology.** The aim in this subject is to acquaint the student with what is valuable in the investigations in Mental Science. Text-books, lectures and original investigations. Prerequisite to Courses 3, 4 and 5. This course is the required work in Philosophy. **Three hours, both semesters.** 8:55 Monday, Wednesday, Friday.

2. **Logic.** The elements in this subject as given in Jevons' Logic, with practical exercises. **Three hours, first semester.** 11:20 Monday, Wednesday, Friday.

3. History of Philosophy. Weber's History of Philosophy, the text covering the ancient Greek Philosophy, supplemented by additional reading and investigation. Prerequisite for Course 5. **Three hours, first semester.** 8:00 Monday, Wednesday, Friday.

4. History of Philosophy. Modern Philosophy, with readings from the more important philosophers. **Three hours, second semester.** 8:00 Monday, Wednesday, Friday.

5. Metaphysics. Lectures, readings and dissertations. For Seniors. **Two hours, second semester.** 11:20 Tuesday, Thursday.

6. Ethics. Borden P. Bowne's Principles of Ethics, accompanied by lectures, discussions, library references and special inductive and constructive studies in the ethical teachings of Jesus, the great poets and philosophers and autobiographies, ancient, and modern; current ethical problems of the day, are treated in the light of recent psychology and mental science. The last part of the semester is given to a detailed study of human duties, individual and social, civic and divine in accord with the rapid moral advance in applied ethics. **Two hours, first semester.** 1:05 Tuesday and Thursday.
Professor John G. Hill.

7. Theism and the Philosophy of Religion. The aim in this Course is to carefully examine the leading Ultimate grounds offered as explanations of reality, and to set forth the theistic ground of a supreme, self-existent, personal Being as the only satisfactory explanation. A clear philosophy of Religion is sought by a sympathetic study of the light which recent science sheds upon the problems of nature, man and mind. Modern Naturalism in its suicidal metaphysical implications and its inferiority to explanation by Personal Idealism is treated. The texts used are Iverach and Bowne. **Two hours, second semester.** 1:05 Tuesday and Thursday.

Professor John G. Hill.

8. The Evidences and Philosophy of Christianity. The various evidences for the truth of Christianity are canvassed. It is shown how the completion of the moral and religious process in man demands Jesus Christ; and how Christianity

is the key to life's philosophy, answering the question: "How can we best explain the mysteries of life?" The many apologetic questions troubling the probing student touching ancient and modern difficulties concerning Christianity are vigorously considered. The text book work is supplemented by frequent lectures and library work. **Two hours, throughout the year. Tuesday and Thursday.** Professor John G. Hill.

Education.

1. **Psychology**, (Philosophy 1) is prerequisite to all courses in education.

Lectures, Texts, Readings, Original Investigations.

1. **The Form and Content of Education.** (1) Critical study of the Psychological Form and Content of Education as it exists in Civilization. This study includes an inquiry into the psychology of progress in Civilization. (2) An examination of Ancient Civilization in order to discover the efficient educating agencies that wrought the practice and theory of living current in those civilizations. Civilization is conceived to be the form of human living existing in any social group,—tribe, community, state, nation—at any given time and in any given place. **Two hours, first semester. 8:55 Tuesday, Thursday.**

2. **The Theory and Practice of Education.** This course investigates primarily the psychology of the Acts of Learning. It investigates secondarily the form of the subject matter that is to be learned. It inquires thirdly into the psychology of the mind that teaches, and how this mind builds up the Science and Art of Teaching. **Two hours, second semester. 8:55 Tuesday, Thursday.**

3. **The History of the Mediaeval Period.** An historical and philosophical investigation of the forms of civilization and education which prevailed during the Mediaeval Period, devoting special attention to the forms in which education developed into systems and institutions. **Two hours, first semester. 8.00 Tuesday, Thursday.**

4. **Educational Reformers.** A review of the work of the so-called Educational Reformers who appeared upon the educational field from Luther down to modern times. This course

will be historical and philosophical, touching systems and institutions, and educating agencies. **Two hours, second semester. 8:00 Tuesday, Thursday.**

5. A special course for teachers may be formed, if there should be a demand for it. The course contemplates the discussion of school management, school discipline, and class instruction.

The following Special Education Courses are offered in other departments.—

Teachers' Course in English (see English C. 12.)

Teachers' Course in French (see French 4.)

Teachers' Course in German (see German 5.)

Teachers' Course in Latin (see Latin 14.)

PHYSICAL EDUCATION.

Professor Harvey R. Holmes.

Elsie Vanderpool, Director of Women's Gymnasium.

Gertrude Comstock, Director of Outdoor Sport for Women.

Oliver J. Schieber, Assistant in the Men's Gymnasium.

1. Systematic class work in gymnastics for men. The work consists of vigorous drill with dumb-bells, Indian clubs and wands, besides progressive graded work on the various pieces of gymnastic apparatus. Required of all first-year students. **Four hours, both semesters.** Professor Holmes.

2. An advanced course for men combining light and heavy gymnastics. Open to those who have completed Course 1. **Four hours, both semesters.** Professor Holmes.

3. Outdoor sports and light gymnastics for women; tennis, basket ball, volley ball, light work on the ladies' athletic field; recreative games and simple use of apparatus. **Four hours, both semesters.** Miss Comstock.

4. An advanced course for women. Advanced exercises with chest weights, dumb-bells, Indian-clubs, ladders and rings. Difficult free work with rhythmical drills for grace and harmony of movement. Open to those who have completed Course 3. **Four hours, both semesters.**

Miss Vanderpool.

Men's classes meet Monday, Tuesday, Wednesday, Thursday, at 2:00, 2:55, and 3:50. Women's classes meet Monday, Tuesday, Wednesday, Thursday, at 10:25, 11:00, and 1:00.

PHYSICS.

Prof.

Assistant Professor Arthur W. Nye.

Laboratory Assistant Fred R. Brown.

1. **General Physics.** Electricity and Heat. Lectures 1:05, Monday, Tuesday, Wednesday. Laboratory arranged P.M. **Four hours, first semester.**

2. **General Physics.** Mechanics and Light. Lecture 1:05 Monday, Tuesday, Wednesday. Laboratory arranged P.M. **Four hours, second semester.**

These courses are open to all who have completed preparatory physics and trigonometry. They are intended to give the student a thorough grounding in the important laws and principles, together with their proofs and applications. The work is also of such a character as to form a basis for further work in special branches for students of engineering. Instruction is given by three periods of lecture and classroom work and three periods of laboratory work per week.

3. **Mechanics.** An advanced laboratory course continuing course 1, may be taken concurrently with it. Experiments are made along such lines as moment of inertia, uniformly accelerated motion, modulus of rigidity, force of gravity, etc. **Four periods of laboratory work per week, with occasional lectures. Two hours, either semester. Hours to be arranged.**

4. **Shop Work.** Instruction in the use of wood and metal working tools and machinery, including cutting, filing, drilling, tapping, polishing, screw cutting, and elementary lathe work. **Two or four periods in laboratory, one or two hours, either semester. Hours to be arranged.**

5. **Applied Electricity.** A course in the principles and applications of electricity. Prerequisite, Physics 2. **Two hours, second semester. 2:00, Monday, Tuesday.**

6. **Electrical Measurements.** A laboratory course in which the theory and methods of exact electrical determinations

are taken up, including the determination of resistance by various methods, galvanometer constants, measurement of current and electromotive force, insulation tests, hysteresis and permeability tests, calibration of instruments, use of condensers, measurement of induction, etc. Six periods per week. **Two hours, first semester.** 1:05-3:50, Monday, Tuesday.

Advanced courses will be announced later.

SPANISH.

Professor Katherine T. Forrester.

1. **Elementary Spanish.** Monsanto's Grammar with Worman's and Bransby's Readers. Thorough drill in pronunciation and grammatical forms. Exercises in reading and writing. Umphrey's Spanish prose composition with conversation on the text. Doce Cuentos Escogidos, Fortuna and El Capitan Veneno, are read. **Five hours, both semesters.** 10:25 Monday, Tuesday, Wednesday, Thursday, Friday.

2. **Advanced Spanish.** Umphrey's Prose Composition is completed and Ibarra's Practical Conversation Method begun. Items of current news from Spanish newspapers are discussed. Matzke's Reader, Alarcon's Novelas Cortas and El Si de las Niñas, are read. **Five hours, first semester.** 8:55 Monday, Tuesday, Wednesday, Thursday, Friday.

3. **Advanced Reading Composition and Conversation.** Ramsey's Progressive Exercises and Ibarra's Conversation. Tabouda's Cuentos Alegres, Marianela and Gil Blas, are read. **Five hours, second semester.** 8:55 Monday, Tuesday, Wednesday, Thursday, Friday.

4. **Advanced Grammar and Contemporary Novels.** Ramsey's Spanish Grammar, novels by Alarcon, Palacio Valdes, Pardo Bazan, Niniez de Acre, Valera, Galdos and others are read. Written work on novels and conversation in Spanish. **Three hours, first semester.** 11:20 Monday, Wednesday, Friday.

5. **Modern Novels.** Fernan Caballero, Tomayo y Baus, Becquer Esproneda, etc. Written work and conversation on

text. **Three hours, second semester.** 11:20, Monday, Wednesday, Friday.

6. Classical Spanish. Readings from Don Quixote, and others of Cervante's works, Lope de Vega, Calderon, etc. Discussions of same in Spanish. **Two hours, first semester.**

7. History of Spanish Literature. Reference reading in Gil y Zarate, Fitz-Maurice Kelly and Tichnor. Short lectures in Spanish on prominent authors and important periods.

Two hours, second semester. Courses 6 and 7 are omitted in 1908-09.

Major work Courses 1-7.

ENGINEERING.

The requirements for admission to the Engineering Courses are stated on page 27.

The subjects required for graduation are given under the separate courses.

The degree of Bachelor of Science in Civil Engineering is conferred upon such candidates as may successfully complete the four years' course in Civil Engineering. (See p. 74.)

The degree of Bachelor of Science in Electrical Engineering is conferred upon such candidates as may complete the four years' course in Electrical Engineering. (See p. 81.)

The professional degrees of Civil Engineer, and Electrical Engineer are conferred on graduates of this University in the Civil Engineering and Electrical Engineering courses respectively, on the satisfactory completion, in residence, of one year of post-graduate study, or on having been engaged in the active practice of their profession for at least three years, two of which shall have involved responsibility, and the presentation of an approved thesis showing ability to do independent work.

ENGINEERING DRAWING.

Professor John B. Johnson.

Assistant Professor Arthur W. Nye.

1. Drawing. Review of projection and developments, lettering, blueprinting, machine drawing and office practice.

Lectures and draughting. **Four hours, first semester.** 10:25 Tuesday, Thursday.

2. **Drawing.** Conventional signs and symbols, topographical maps, tinting and shading. **Four hours, second semester.** 10:25 Tuesday, Thursday.

3. **Descriptive Geometry.** Lectures and drawing, including representations of lines, surface and solids, with their intersections, tangencies and developments; shades and shadows, linear perspective and stereotomy. **Five periods, two hours, both semesters.** 8:00-8:55 Tuesday, Thursday. Lecture 11:20 Thursday.

4. **Machine Design.** Advanced course in mechanical and electrical design; detailing, working drawings of complicated machine details, study of standard commercial machine parts, shop practice, strength of parts, use of tables, formulae and slide rule, gearing, estimating, specifications, structural iron and steel, lectures and practice. **Two hours class. Three hours drafting, first semester.** Class 8:55 Tuesday, Thursday. Drafting, 1:05-4:30 Thursday.

CIVIL ENGINEERING.

Professor John B. Johnson.

Instructor John C. Avakian.

Assistant, Arsen H. Avakian.

The great industrial development of recent years in every part of the United States has created a large demand for trained Civil Engineers. The course in Civil Engineering has been made quite broad in order to meet this demand, by providing a sufficient foundation for the wide range of practice now included under Civil Engineering.

Very few college students know in what part of this wide field their life work will lie. Because of this, and the great difficulty of mastering fundamentals during the stress of professional work, it has seemed best to provide a broad university preparation and to defer specialization to the period of active employment.

The course is designed to give a practical as well as theoretical training. Nearly as much time is spent in the drawing room, laboratory, and field, as in the lecture room.

By consulting the schedule on page 67 it will be seen that considerable time is devoted to Mathematics, English, Modern languages, and Sciences. Of the more technical work, the Field Engineering is given very full treatment in lecture room, office and field.

In the third year Theoretical Mechanics is thoroughly developed and forms the basis for the designing and construction which occupies the remainder of the course. The importance of correct methods of thought and practice is constantly inculcated.

A very large amount of important Engineering work, which is greatly diversified by the proximity of harbors, mines, great irrigation and water supply projects, several trans-continental railway terminals, and a very extensive electric power, and interurban railway system, is continually going on in the vicinity of Los Angeles. Students in this Department, accompanied by Instructors, are required to inspect much of this work, and to present written reports on what they have seen.

REQUIRED COURSE IN CIVIL ENGINEERING.

First Year.

First Semester.

	Hours.
Math., 2, 5—Alg. and Trig.....	5
Chemistry, 1—General	3
Chemistry, 3.....	6
Civil Eng., 1—Surveying, Theory.....	2
Civil Eng., 2—Surveying, Field Work and Drawing.....	3
Eng. Drawing, 1.....	4
English, A 1.....	3

Second Semester.

	Hours.
Mathematics, 6—Analytical Geom.....	5
Chemistry, 2.....	3
Chemistry, 4.....	6

NOTE.—Figures in light-faced type mean recitation periods. Figures in bold-face type mean laboratory periods.

	Hours.
Civil Eng., 1.....	2
Civil Eng., 2.....	3
Eng. Drawing, 2.....	4
English, A 1.....	3

SECOND YEAR.**First Semester.**

Math., 7—Calculus.....	4
Geology, 2—Mineralogy	2
Eng. Drawing, 3—Descriptive Geom.....	1
Eng. Drawing, 3.....	4
Civil Eng., 13—Materials.....	3
Physics, 1—Elec. and Heat.....	3
Physics, 1	3
French or Spanish.....	5

Second Semester.

Math., 8—Calculus	3
Physics, 4—Shop Work.....	2
Geology, 2.....	2
Civil Eng., 3—Higher Surveying.....	1
Civil Eng., 3.....	3
Eng. Drawing, 3.....	1
Eng. Drawing, 3.....	4
Physics, 2—Mech's and Light.....	3
Physics, 2	3
French or Spanish.....	5

THIRD YEAR.**First Semester.**

Civil Eng., 8—Analytical Mechanics.....	3
Civil Eng., 9—Mech's of Materials.....	2
Civil Eng., 15—Graphical Statics.....	2, 1
Civil Eng., 5—Railway Eng. Theory.....	2
Civil Eng., 6—Railway Eng. Practice.....	6
Electrical Eng., 1—General.....	5
Thermodynamics and Heat Engines.....	2

NOTICE—Figures in light-faced type mean recitation periods.
 Figures in bold-faced type mean laboratory periods.

Second Semester.

	Hours.
Civil Eng., 8	2
Civil Eng., 9	3
Civil Eng., 16—Stresses in Framed Structures	2
Electrical Eng., 5—Steam Engineering	3
Civil Eng., 10—Hydraulics	3
Civil Eng., 7—Railway Economics	2
Eng. Drawing, 4—Machine Design	2
Eng. Drawing, 4—Design	3

FOURTH YEAR.**First Semester.**

Civil Eng., 18—Structural Design	3
Civil Eng., 15—Foundations	2
Geology, 1	2
Math., 10—Astronomy	2
Civil Eng., 17—Eng. Lab.	3
Civil Eng., 11—Water Supply and Irrigation	2
Civil Eng., 12—Sanitary Eng.	2
Civil Eng., 21—Canals, Rivers and Harbors	1
Civil Eng., 23—Thesis	1

Second Semester.

Civil Eng., 18	3
Civil Eng., 20—Tunneling and Mining	1
Geology, 1	2
Math. 10	2
Civil Eng., 4—Geodetic Surveying	2
Civil Eng., 23—Contracts and Specifications	2
Civil Eng., 19—Highway Engineering	2

COURSES IN CIVIL ENGINEERING.**Surveying and Geodesy.**

1. **Surveying.** An elementary course including use and care of surveying instruments and the methods of making land surveys; measuring angles with the transit; leveling for

NOTICE—Figures in light-faced type mean recitation periods. Figures in bold-faced type mean laboratory periods.

profiles; established a meridian with solar compass or solar attachment, and the methods of city and mining surveys. **Two hours, throughout the year.** 1:05 Monday, Tuesday.

2. Surveying Field Work. The practical adjustment of surveying instruments; the proper method of keeping clear field notes, and the performance of field problems with chain, tape, level, plane table, transit, compass, etc. The work in the drawing room consists of platting the field notes and making profiles and maps. **Three periods, one hour, throughout the year.** Course 1 to be taken concurrently. 2:00-4:40 Thursday, Friday.

3. Higher Surveying. Topographical surveys with plane table and stadia; city surveys; mining and hydrographic survey methods; use of sextant and barometer. Lectures, recitations and field work. **Four periods, two hours, second semester.** 2:00 Wednesday; 1:05-4:40 Friday. Prerequisites. Courses 1 and 2.

4. Geodetic Surveying. A course treating of methods of conducting geodetic surveys including determination of the form of the earth, base line measurements, triangulation, precise leveling, least squares and astronomical problems. **Two hours, second semester.**

Railroad Engineering.

5. Railroad Engineering. A course including the theory of curves, switches and sidings; the making of reconnoissances, and preliminary and location surveys; the computation of earth-work and determination of structures, and making final estimates of cost. **Two hours, lectures and recitations, first semester.** 10:25 Tuesday, Thursday. Prerequisites, Courses 1 and 2.

6. Railroad Engineering Field and Office Work. Practice in laying out curves and making complete surveys for a short line of railway and doing the office work. **Eight periods, three hours, first semester.** 1:05-4:40 Monday, Tuesday.

Course 5 must be taken concurrently.

7. Economics of Railway Location. The influence of grades, curves, tunnels, rise and fall, etc., is studied with regard to effect upon cost and operating expenses of steam and

street railways. **Two hours, second semester.** 10:25 Tuesday, Thursday.

Prerequisite Course 5.

Mechanics and Hydraulics.

8. **Analytical Mechanics.** The mathematical treatment of statics, kinematics and dynamics, including determination of center of gravity, moment of inertia, centrifugal force, etc. **Three hours, first semester; three hours second semester.** Prerequisite Mathematics 7. 8:55 Monday, Wednesday, Friday.

9. **Mechanics of Materials:** A mathematical course in resistance and elasticity of materials, stresses and strains, shearing, flexure, beams, columns, shafts. **Two hours, first semester; three hours, second semester.** Course 8 must be taken concurrently. 11:20 Tuesday, Thursday.

10. **Hydraulics.** Hydraulic pressure, strength of pipes, flow of liquids through pipes and orifices and over weirs, losses of head, flow of water in open channels, dams of masonry and earth, hydraulic motors and machinery. **Three hours second semester.** 11:20 Monday, Wednesday, Friday. Prerequisite Course 9.

11. **Water Supply and Irrigation Engineering.** Determination of quantity and quality of supply, water purification, and conservation, design of a system, diversion, conveyance and application of irrigation water. **Two hours, first semester.** Prerequisite Course 10.

12. **Sanitary Engineering.** Drainage of buildings, treatment and disposal of sewage, sewer systems for cities. **Two hours, first semester.** Prerequisite Course 10.

Engineering Construction.

13. **Materials of Engineering.** A study of the manufacture and properties of stones, cements, concretes, timber, iron, steel, etc., with special attention to determination of safe working stresses. **Three hours, first semester.** 2:00 Monday, Tuesday, Wednesday.

14. **Foundations.** The foundations of bridges and buildings, coffer dams, piers, pile-driving, caissons, masonry and

re-enforced concrete arches, retaining walls. **Two hours, first semester.** Prerequisite, Courses 9 and 14.

15. **Graphical Statics.** The graphical determination of the stresses in engineering structures. **Three periods, two hours, first semester.** 10:25 Monday, Wednesday, Friday. Course 8 must be taken concurrently.

16. **Stresses in Framed Structures and Arches.** The analytical and graphical methods applied to determining stresses in roof and bridge trusses, and masonry arches. **Two hours, second semester.** 10:25 Monday, Wednesday, Friday. Prerequisite Course 16.

17. **Engineering Laboratory.** Testing iron, steel, timber, cements, stones and concretes. **Three periods, one hour, first semester.** Prerequisite Course 14.

18. **Structural Design.** Theory for and practice of making complete designs for steel bridges, roofs, and other structures. Lectures, drawing and computing. **Six periods, three hours, throughout the year.** Prerequisite, Courses 9, 13 and 16.

19. **Highway Engineering.** Roads and streets of broken stone, paved and oiled roads, location of new roads. **Two hours, second semester.**

20. **Tunneling and Mining.** Excavation, lining, ventilation and drainage of tunnels and mines; sinking shaft, pumping and hoisting. **One hour, second semester.** Prerequisite, Course 11.

21. **Canal Construction and River and Harbor Improvement.** A short course of twenty hours including canals, locks, break-waters, levees, etc. One unit, **first semester.** Prerequisites, Courses 10 and 14.

22. **Contracts and Specifications.** A synopsis of the law of contracts as applied to Engineering construction and a study of typical contracts and specifications. The course includes riparian rights, boundary lines, survey descriptions, etc. **Two hours, second semester.**

23. **Thesis.** A study of some special engineering problem or an independent investigation by the student. The subject must be approved by the professor in charge of the department of Civil Engineering and by the professor who would

have immediate direction of the work proposed, not later than November 1st of the Senior year. It must be completed and submitted by June 1st of the same year. One hour, second semester.

ELECTRICAL ENGINEERING.

Professor

Assistant Professor Arthur W. Nye.

The courses offered in this department are designed to fit young men to engage in the operation and production of electrical apparatus, also in the applications of electricity to the Arts and Sciences.

During the freshmen and sophomore years there is laid a broad foundation, consisting of Physics, Mechanics, Chemistry, Surveying and Language. During the junior and senior years, special studies in electricity and applied electricity are pursued. These involve the theory of electricity and magnetism, with application to direct current machines and measuring instruments, the theory of alternating currents and alternating machinery and apparatus, comprising alternators, synchronous and induction motors and rotary convertors. Courses are also given in Electrical Distribution and Transmission, Lighting and Power plants.

The work of the Engineering Laboratories is co-ordinate with the lecture and class room and aims to give a practical knowledge of electrical measurements and the handling of electrical machinery.

Southern California in its present state of rapid development, offers exceptional opportunity to the hydraulic and electrical engineer. The work of the University is splendidly supplemented by the large amount of work under construction. The engineers and superintendents in charge of these have been very courteous in aiding the classes on their various trips of inspection. The various power and electric plants in and about Los Angeles afford excellent examples of electric development of high tension and power transmission not surpassed by any other in the United States. Various excursions to these plants and lectures by superintending engineers are some of the features enjoyed by the students of the department.

REQUIRED COURSE IN ELECTRICAL ENGINEERING.**FIRST YEAR.****First Semester.**

	Hours.
Mathematics, 2, 5—Algebra and Trig.....	5
Eng. Drawing, 1.....	4
Chemistry, 1—General.....	3
Chemistry, 3	6
English, A1	3
Civil Eng'r., 1—Surveying Theory	2
Civil Eng'r., 2—Surveying Field Work and Drawing.....	3

Second Semester.

Mathematics, 6—Analytical Geom.....	5
Eng. Drawing, 2.....	4
Chemistry, 2	3
Chemistry, 4	6
English, A1	3
Civil Eng'r., 1.....	2
Civil Eng'r., 2.....	3

SECOND YEAR.**First Semester.**

French or Spanish.....	5
Physics, 1—Elec. and Heat.....	3
Physics, 1	3
Mathematics, 7—Calculus.....	4
Eng. Drawing, 3—Descriptive Geometry	1
Eng. Drawing, 3.....	4
Physics, 4—Shop Work.....	2
Civil Eng'r., 14—Materials of Eng'r.....	3

Second Semester.

French or Spanish.....	5
Physics, 2—Mech. and Light.....	3
Physics, 2	3

NOTE.—Figures in light-faced type mean recitation hours. Figures in bold-face type mean laboratory hours.

	Hours.
Mathematics, 8—Calculus.....	3
Eng. Drawing, 3.....	1
Eng. Drawing, 3.....	4
Physics, 4	2
Physics, 5—Electricity	2

THIRD YEAR.

First Semester.

Elec. Eng'r., 1—General.....	5
Physics, 6—Elect. Meas.....	6
Civil Eng., 9—Anal. Mech.....	3
Civil Eng., 10—Mechanics.....	2
Eng. Drawing, 4—Design.....	2
Eng. Drawing, 4—Design.....	3
Elect. Eng'r., 4—Thermodyn.....	2

Second Semester.

Elect. Eng'r., 1—General.....	5
Elect. Eng'r., 2—Dyn. Lab.....	6
Civil Eng'r., 9—Anal. Mech.....	2
Civil Eng'r., 10—Mechanics.....	3
Elect. Eng'r., 5—Steam Eng.....	3
Elect. Eng'r., 6—Excursions.....	3

FOURTH YEAR.

First Semester.

Elect. Eng'r., 3—Alternating Currents	5
Elect. Eng'r., 7—A. C. Machinery.....	6
Elect. Eng'r., 6—Excursions	3
Elect. Eng'r., 8—Design	2
Elect. Eng'r., 8—Design	3
Economics, 1	3
Elect. Eng'r., 9—Eng'r Lab.....	3
Elect. Eng'r., 10—Thesis	3

NOTICE—Figures in light-faced type mean recitation hours.
Figures in bold-faced type mean laboratory hours.

Second Semester.

	Hours.
Elect. Eng'r., 3.....	5
Elect. Eng'r., 7.....	6
Elect. Eng'r., 6.....	3
Elect. Eng'r., 8.....	2
Elect. Eng'r., 8.....	3
Economics, 2.....	3
Civil Eng'r., 11—Hydraulics.....	3
Elect. Eng'r., 10—Thesis.....	6

COURSES IN ELECTRICAL ENGINEERING.

1. **Dynamo Electric Machinery.** This course comprises a study of the theory and operation of direct current apparatus of all kinds, motors, generators, power plant installations, transmission lines, storage batteries, lamps, controllers, etc., methods of testing and operation, theory of commutation and speed control. Alternating currents are taken up briefly towards the end of the year. Junior Year. **Five hours, both semesters.** 10:25, Monday, Tuesday, Wednesday, Thursday, Friday.

2. **Dynamo Laboratory.** Study is made of the performance of direct current machines by means of their characteristic curves; efficiency, regulation and heat tests are run; and various methods of operating generators and motors and their auxiliary control apparatus are studied. Junior Year. Six periods. **Two hours, second semester.** 1:05-3:50, Monday, Tuesday.

3. **Alternating Currents.** A mathematical study of theory and applications to generating, transforming, utilizing machines. Senior Year. **Five hours, both semesters.**

4. **Thermodynamics.** Laws of gases; steam and its uses; heat engines and engine cycles; combustion, etc. Junior Year. **Two hours, first semester.** 8:00, Tuesday, Thursday.

5. **Steam Engineering.** A consideration of the different types of prime movers, especially steam and gas. Study is made the cost of production of power and general layout of power plants. Junior Year. **Three hours, second semester.** 8:00, Monday, Wednesday, Friday.

NOTICE—Figures in light-faced type mean recitation hours. Figures in bold-faced type mean laboratory hours.

6. **Excursions.** Trips to various power plants and factories with a view to observing methods and processes. Written reports required of students.

7. **Dynamo Laboratory.** Tests and study of alternating current apparatus. Senior Year. Six periods. **Two hours, both semesters.**

8. **Electrical Design.** Study of types of electrical machinery; calculations and detail drawings. Senior Year. Two periods class, three periods drafting. **Three hours, both semesters.**

9. **Engineering Laboratory.** Testing of strength of materials, engine and boiler efficiencies, etc. Senior Year. Three periods. **One hour, first semester.**

10. **Thesis.** Original investigation and study of some special problem.

SUMMER SESSION

Of The

COLLEGE OF LIBERAL ARTS.

The Summer Session of the University for 1907 was held at the College of Liberal Arts, Monday, June 24th, to Saturday, August 3d.

The Session for 1908 will begin Monday June 22nd and continue to Saturday July 31.

Courses in the Summer School are designed to meet the needs of the following classes of students:

1. Undergraduates and Graduates of a College or University.
2. Teachers, including those in public schools, private schools and other institutions of learning.
3. Auditors, those desiring to hear courses of lectures or occasional lectures (not for credit.)
4. Preparatory and Special Students who are deficient in entrance credits or who wish to make a study of some particular subject.

For entrance no formal examinations are required. Students will be admitted to such courses only as their previous training has prepared them to pursue profitably.

Opportunity will be given those who are compelled to enter late to make up their work.

Instruction will be given by the regular members of the University faculty and by special lecturers from other institutions. The University library, and the physical and biological laboratories, with their new equipment, are open to the students in the Summer School.

Los Angeles enjoys, during the summer months, an equable climate of pleasant days and cool nights, affording a rare opportunity of combining recreation and study. Attractive mountain, beach and island resorts are within a few hours of the city by electric car lines.

Students will register and pay their fees at the general office of the University before entering classes. The fees for the different courses will be indicated in the Summer Session Bulletin published about May 1st.

The maximum college credit given will be six semester hours. In preparatory subjects not over one unit may be earned, the student devoting his entire time to the work.

COURSES OF INSTRUCTION.

SUMMER SESSION 1908.

DEPARTMENT OF BIOLOGY.

Professor Life.

1. General Botany (College).
2. General Zoology (College).
3. General Botany (Preparatory).
4. Special Courses (for making up of deficiencies in Botany or Zoology).

DEPARTMENT OF CHEMISTRY.

Assistant Professor Graves.

1. Elementary Chemistry. (Preparatory).
2. Qualitative Analysis.
3. Quantitative Analysis.

DEPARTMENT OF ENGLISH.

Professor Dixon.

Miss Foster.

1. Scott and Modern Romance Writers. (Professor Dixon).
2. Ballads and Ballad Poetry. (Professor Dixon).
3. Some English Masterpieces of the Nineteenth Century. (Miss Foster).
4. Browning. (Miss Foster.)

DEPARTMENT OF FRENCH.

Professor Von Fingerlin.

1. Elementary French.
2. Modern Authors.
3. Classical French.

DEPARTMENT OF GERMAN.

Professor Borthwick.

1. Elementary. (Preparatory) Second Semester.
2. Modern Stories and Plays. (Second Semester 2nd. Year).
3. Schiller—Drama and Ballads.

DEPARTMENT OF GREEK.

Mr. Spangler.

1. Elementary.
2. Review of Grammar and Prose reading.
3. Illiad.
4. Odyssey.
5. New Testament Greek.
6. Greek Tragedy.

DEPARTMENT OF HISTORY.

Professor Knoles.

1. American History.
2. Civics.
3. Mediaeval History. (College).

DEPARTMENT OF ITALIAN.

Professor Von Fingerlin.

1. Elementary.
2. Modern Authors.
3. Classical Italian.

DEPARTMENT OF LATIN.

Professor Schulz.

1. Elementary Latin (2nd Semester).
2. Caesar (1st Semester).
3. Caesar (2nd Semester).
4. College Course. (In 1907 Cicero's De Senectute and Horace's Epodes were read).

DEPARTMENT OF MATHEMATICS.

Professor Paul Arnold.

1. Elementary Algebra.
2. Advanced Algebra.
3. Geometry.
4. Trigonometry.
5. Calculus.

DEPARTMENT OF ORATORY.**Miss Vanderpool.**

1. Fundamental Principles of Expression.
2. Interpretation of Modern Writers.
3. Lyric Poems.
4. Public Speaking.

DEPARTMENT OF PHYSICS.**Professor Nye.**

1. Elementary Physics (Preparatory) 1st Semester.
2. Elementary Physics (Preparatory) 2nd Semester.
3. Electricity and Heat.
4. Mechanics and Light.
5. Advanced Mechanics.
6. Mechanical Engineering Drawing.

DEPARTMENT OF PSYCHOLOGY AND EDUCATION.**Professor Hoose.**

1. Psychology. The nature and forms of mental activities.
2. Education. Principles of teaching and school management.

DEPARTMENT OF PHYSICAL EDUCATION.**Professor Holmes.**

1. Gymnastics.
2. Normal Course.
3. Lecture Course.
4. Football.
5. Track.
6. Swimming.

DEPARTMENT OF SPANISH.**Mr. Spangler.**

1. Elementary.
2. Review of Grammar and selected Reading.
3. Advanced Composition and Reading.

GENERAL INFORMATION.

The College of Liberal Arts of the University of Southern California is situated in Los Angeles, about three and one-

half miles southwest from the business section of the city. The College buildings are accessible by three lines of street cars the Main Street, University, and L. A. Interurban lines. This is one of the most beautiful and rapidly growing residence portions of Los Angeles. The campus, comprising ten acres, has been improved by cement sidewalks and street grading on all sides, and a lawn in front of the main building. The University Methodist Episcopal Church is located near the campus, and is one of the most prosperous churches in the city. The Baptists and Presbyterians also have churches in the near vicinity. These advantages, together with fine public school privileges, make the University section of the city a very desirable place of residence for families seeking educational opportunities.

Religious Privileges.

The moral atmosphere surrounding the student is exceptionally good. The Young Men's Christian Association and the Young Women's Christian Association are active and effective in social and religious life.

In addition to the daily chapel exercises, courses of special sermons are delivered from time to time. These privileges constitute a good Christian atmosphere in which to lay the foundation of character. Students are expected to attend some Church each Sabbath, and are advised to join some Sunday class for the study of the Bible.

The University provides, during the College year, a free course of lectures dealing largely with biblical subjects.

Literary Societies.

The Aristotelian Literary Society for men, is the oldest of the societies connected with the College. It has a large and well furnished hall in which to hold its meetings.

The Comitia, a newly formed literary society for young men, is in a flourishing condition.

The Athena and Clionian Societies are for young women. They have finely furnished halls, and are doing excellent work.

Library and Reading Room.

The library is large and well lighted, carpeted, and furnished with shelving sufficient to hold about ten thousand volumes, with new tables and chairs for the convenience of the students. The number of volumes actually accessioned, public documents, and pamphlets is nine thousand three hundred and forty-two. The largest recent addition to the library is the "Dean George Cochran, D. D. Memorial Library" placed in the University by his son, George I. Cochran. Eight hundred forty-six volumes chosen with special care to meet the needs of the various departments of the University have been added to the library during the year.

The Museum.

An extensive collection of specimens in mineralogy and geology has been accumulated during the past years, by donations and purchase. Professor Dickinson, the first curator, opened the museum and classified it, making many donations from his own excellent private collection.

A few years ago the trustees purchased from Dr. Stephen Bowers a large collection of geological, mineralogical, and archaeological subjects.

The Rev. C. R. Pattee, D. D., has donated about five hundred species of West Coast shells, a valuable geological, paleontological, mineralogical and conchological collection.

The late Mrs. Mary Wright has bequeathed to the University a very valuable collection of geological specimens.

Physical and Electrical Engineering Laboratories.

The departments of Physics and Electrical Engineering occupy nine rooms on the first floors of the main building and Science Hall. These have been planned and equipped exclusively for the departments and are suited to the purpose for which they are used.

The Laboratories set apart for the Departments consist: (1) General Physical Laboratory. (2) Electrical Laboratory. (3) Photometry room. (4) Physical Optics. (5) Dynamo and Motor room. (6) Research room. (7) Shop. (8) Battery room.

The equipment is furnished by the best American and European makers. It is of recent purchase—modern and best quality. The department of General Physics is very complete. For advanced work in Heat and Light there are several pieces of fine apparatus. In Mechanics and Electricity there is ample for advanced work of high order. Special mention may be made, (1) Apparatus of precision by Gartner & Co.; (2) Resistance Boxes, Meter & P. O. Bridges, Potentiometers, Dynamometers, Standard cells, Ballistic and moving coil Galvanometers by Leeds Northrup Co.; (3) Weston Standard Ammeters & Voltmeters, Permeaters by Nalder Bros., London, etc.; (4) Spectrometers, Spectrophotometers, prisms and gradings; (5) Direct current and Alternating current generators, Direct Current and Induction motors, 2. Rotary converters, Transformers, Meters, Switchboards and Switching devices.

The General Laboratory is furnished with a number of Standard reference works on Physics.

The Chemistry Building.

The department of Chemistry occupies the new building erected in the southern portion of the campus during the summer of 1907. The laboratory for general chemistry will accommodate one hundred ten students; that for quantitative chemistry forty students; that for organic chemistry twenty-five students. The laboratories are thoroughly equipped with modern laboratory tables, water, gas, apparatus, and chemicals; they contain a large number of hoods and all of the conveniences of a modern laboratory. The balance room is a separate room well-lighted and equipped with twelve fine analytical balances. The store-room is accessible from the different working laboratories and is supplied with a large quantity of apparatus and chemicals of the best make. A special research laboratory accommodating twenty-five students is thoroughly equipped with storage batteries for electro-chemistry, also with combustion apparatus and special apparatus for determining molecular weight. Another laboratory is equipped for investigations on oil and gas. The equipment consists of stills, hydrometers, viscometers, Atwater's bomb calorimeters for heat determination, Junker's

patent gas calorimeters, Hempel's gas apparatus, Elliot's sulphur apparatus and a thermo-electric pyrometer. There are also four additional research laboratories.

Assay and Metallurgical Laboratory.

This laboratory occupies a large room in the new Chemistry Building. The equipment consists of rock crushers, ore grinders of several kinds, amalgamating fans, etc., all driven by electricity. The furnaces are of the latest type, using gas for fuel. The equipment includes all the necessary apparatus for all kinds of assay work. The equipment includes apparatus for concentration and amalgamation tests as well as a complete cyanide and chlorination plant. Special facilities are afforded for the electrolytic-reduction processes. The laboratory is modern in every detail.

The Biological Laboratories.

The entire second floor of the new north wing of the main building is devoted to the biological laboratories and lecture room. The laboratories are so planned that each student has abundant light, 110 feet of desks face immediately to the north. Each student is supplied with a heavy single desk of slash grained pine, containing two drawers and microscope locker each with Craig combination locks.

The Zoological Laboratory, 34x45 feet, contains now forty-seven single desks and a large demonstration table 4x11 feet with drawers and cupboards on each side for supplies. The laboratory is provided with black board, glass cases for books, reagents and specimens; a sink, aquarium and drip for keeping living specimens. Each student is furnished a compound microscope, BA 2 or BB 2, dissecting instruments and necessary materials for dissection and study.

The Botanical Laboratory is thirty by forty-five feet. It contains forty-four single desks with drawers, locker and Craig combination locks for each; a large demonstration table; cases for twenty thousand herbarium specimens, books and supplies; black boards, sink, aquarium and drip. A compound microscope, dissecting instruments and materials are furnished each student.

The Laboratory for Bacteriology and Physiology is 29x46 feet, facing the north. It is supplied with autoclav, Arnold and hot air sterilizers, incubators, glassware and all other necessary equipment for work in bacteriology. There are thirty-one single desks in this laboratory, a large demonstration table, two hoods and cooling chamber, sink, tank, tables, cupboards and case for reagents and supplies. All the necessary materials, apparatus and instruments including BB8 Bausch and Lomb microscopes are furnished the student. For Physiology the laboratory is supplied with all the necessary reagents and apparatus such as microscope, haemocytometer, dissecting instruments, etc., for successful laboratory work. A complete set of the Harvard Physiological apparatus has been added. For Histology and Embryology the student is supplied with BB8 microscope and has the use of the Minot automatic rotary microtome, Bausch and Lomb's automatic laboratory microtome, and all reagents necessary to carry on successfully this work.

The research laboratory, 15x17 feet, adjoins the office of the department which is also 15x17 feet. The equipment of these rooms is such as adapts them to advanced work along special lines. The best microscopes of German and American make are available, including Bausch and Lomb, CC 8, Zeiss Ila, with achromatic and a set of apo-chromatic objectives with compensating eye pieces. Other microscopes of the Leitz and Spencer types, also imbedding baths, centrifuge, camera, numerous microscope accessories and instruments are provided.

The lecture room is 32x36 feet with raised seats. It has a seating capacity of about two hundred and is provided with sky light and fitted with screens for darkening to adapt it to the use of the electric projection apparatus and stereopticon which form part of the equipment. The lecture desk which is fitted with drawers and cupboards can be adjusted instantly for gas or water for demonstration purposes. This room as well as all others is well supplied with electric lights.

The wide halls have been provided with glass cases in which are placed a large collection of birds, mollusks and alcoholic specimens for demonstration and study. The collection of

mollusks is very complete, representing over eighteen thousand specimens.

Athletics and Physical Culture.

The Faculty of the College of Liberal Arts, recognizing that physical culture is both hygienic and educative, desires to encourage every reasonable effort in the direction of physical development consistent with strong manhood and womanhood. On its hygienic side it should aid the body in all its functions, develop a symmetrical form, correct deformity as far as possible, and afford recreation. In its educative function it should afford the discipline necessary for self-control, both mental and moral.

There are two active tennis clubs with three well kept courts. A golf club has been organized for students and professors. Play is held on the Hotel Raymond links in Pasadena.

Gymnasium and Athletic Grounds.

Athletic sports are encouraged for their value in developing the body, in furnishing a means of pleasant recreation, as well as a source of social and ethical culture, and in cultivating the spirit of co-operative enterprise.

The gymnasium has been fitted with appliances for the proper development of the body. The necessary apparatus of the newest and most approved designs has been provided. The director has made preparations for the training in the gymnasium of both the young men and young women, who will have separate lockers and baths and use the building at different periods of the day. The students have all the advantages of the gymnasium, with baths, lockers and dressing room accommodations.

A complete equipment is provided for each form of exercise. Galleries will afford audience room for special gymnastic exercises when such are open to the public.

Each student, on entering the department, undergoes a thorough physical examination, in order that his physical condition may be known to the director, and suitable exercise prescribed. Various strength tests and measurements are given; the heart, lungs, and eyes are examined, and the ut-

most caution used in the advice given regarding individual exercise. One examination during each semester is required, the latter demonstrating any improvement or change in the student's physical condition. Anthropometric cards and charts are plotted for students when desired.

Athletic Contests.

All athletic and team contests are under close supervision of the director and no student is permitted to compete in games or contests whose physical examination shows that he or she is unfit.

Any person who desires to enter athletic contests must attain a certain standard of scholarship before being permitted to participate.

Gymnastics for Women.

Before entering upon this training every young woman is given a thorough physical examination by the director, Miss Vanderpool, in order that only such exercises may be given as are suited to the student's individual needs. If owing to any physical inability to take the work with the regular classes it seems necessary to take special corrective work, private instruction may be arranged for.

The regular course includes gymnastics, athletics and physical culture. A combination of the Swedish and German system of gymnastics is used.

The gymnasium is well equipped with apparatus. All work must be done under the Supervision of the Director.

The Athletic grounds are adjacent to the gymnasium and participation in out-door sports is expected of all young women taking physical training. They may elect tennis, volley-ball, or basket ball. Steps are being taken to secure a hockey field, and it is hoped that hockey will soon be one of the regular out-door sports. The University basket ball team is a member of the Young Women's Basket Ball League of Southern California, and the young women who show greatest proficiency in basket ball are chosen to represent the University in intercollegiate games.

Students are required to provide themselves with a special suit for gymnasium exercises. The Director must be con-

sulted in this matter, in order that there may be uniformity of costume.

Scholarships.

The Hugh Johnston Scholarship.

This scholarship was founded by Mrs. Anna H. Johnston, of Pasadena, in memory of her deceased husband, and is for the benefit of needy students. Mrs. Johnston will name the incumbent when she desires. Otherwise this will be done by the authorities of the University.

The Spence Scholarship.

This scholarship was founded by the Hon. E. F. Spence in his life time, and is devoted to the use of needy students in the San Diego district, upon the recommendation of the Presiding Elder of that district.

The A. C. Hazzard Scholarship.

A thirty-year scholarship founded by Rev. A. C. Hazzard, of Whittier, for the benefit of students preparing for Christian work.

The A. M. Peck Scholarship.

Founded by A. M. Peck of Compton.

The Poplin Scholarship.

Founded by F. L. Poplin of Los Angeles. The incumbent to be named by the founder.

The Ontario Scholarship.

For the benefit of graduates of the Ontario High School.

Zana E. Stevens Scholarship.

Founded by Rev. F. G. H. Stevens, September 16th, 1907, in memory of Zana E. Stevens, nee Terpenning, of the class of 1901. This scholarship is to be filled by a member of the J. O. C. Class of the First Methodist Episcopal Church of Santa Monica, of which Mrs. Stevens was the organizer and teacher. The incumbent is to be named by the founder when he so desires, otherwise by the Presiding Elder of the Los Angeles District and the authorities of the University. In case no member of this J. O. C. Class is eligible, the in-

cumbent shall be chosen from any J. O. C. members who apply for same. In case none such apply, the incumbent shall be chosen from any female students who apply.

Others contemplate the establishment of prizes and scholarships, and it is earnestly hoped that soon a goodly number can be offered. Friends of the school can greatly add to its attractiveness in this way.

PRIZES.

The Lottie Lane Prize.

This prize, established by Mrs. Charlotte A. Thomson as a memorial to a deceased daughter, is an elaborate gold medal, to be presented each year at Commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole college course. Students who have taken more than four academic years to complete the course or those who have received credit for work done elsewhere than in this College, are not eligible for this prize. This medal was awarded in 1907 to Hugh Carey Willett.

The Oratorical Prize.

The Rev. George R. Graff and wife, give fifty dollars annually to be awarded to the man who wins the first place in the local oratorical contest.

The Phi Alpha Fraternity gives an additional annual prize of twenty-five dollars for the best oration delivered in the local contest by an undergraduate; the Oratorical Association offers a second prize of fifteen dollars and a third prize of ten dollars.

The first prize was awarded in 1907 to Morris Edwin Cooper.

Gifts to the University.

The Hough Fund. This is a fund of \$65,000 given by Rev. Asahel M. Hough, deceased, and his wife, Anna G. Hough, of Los Angeles. It is to be held by the University in perpetuity, and the income is to be used for current expenses of the College of Liberal Arts, or as the Board of Trustees may annually direct.

The Hazzard Professorship. Rev A. C. Hazzard has given to the University, property valued at \$30,000 for the endowment of a professorship in English Bible.

The Merryman Professorship. Mr. T. D. Merryman has given to the University property valued at \$25,000 for the endowment of a professorship in Mathematics.

Hartupee Gift. This gift consists of \$22,500.

Ladies' Auxiliary.

This organization, formed during 1906-1907 of more than thirty ladies interested in the welfare of the University, has been actively engaged in beautifying the campus of the College of Liberal Arts, in furnishing East Hall as a rest room for the young ladies and in equipping the cafeteria.

For further information address,

UNIVERSITY OF SOUTHERN CALIFORNIA,
Los Angeles, California.

THE COLLEGE OF MEDICINE

HISTORICAL STATEMENT.

In the year 1880 the State of California chartered the University of Southern California, and the College of Liberal Arts began its work of teaching in the following year. Five years later, the Board of Trustees empowered Dr. J. P. Widney to take steps toward the organization of a medical department of the University and upon his call, the first faculty met at his office and formally established "The College of Medicine of the University of Southern California."

The minutes of the first meeting give the following account of the proceedings:

"A preliminary meeting of the Profession was held in the office of Dr. J. P. Widney in the Widney Building on First Street near Spring on March 31, 1885, to consider the advisability of organizing a Medical Department of the University of Southern California.

"Dr. Widney, who had been elected Dean of the Faculty by the Board of Directors of the University, with power to organize the Medical Department, occupied the Chair. On motion of Dr. Lindley, Dr. Percival was elected Secretary of the meeting.

"The opinions expressed were largely in favor of prompt and energetic action in regard to the matter, and one and all without exception, recommended that the institution be placed at once on a footing equal to any, and superior to the majority of medical colleges of the United States. Many expressed themselves as being unwilling to have any hand in the organization of any school, other than the very best."

This thought of a college aiming to do work equal to the very best, which was laid down by the founders of the College, many of whom are still associated with the institution, has been kept constantly in mind. This College was the fourth

in the United States to insist upon a three-year course of medicine and from its inception almost, has been a member of the Association of American Medical Colleges, subscribing in all particulars to its requirements, and endeavoring always to raise the standard of medical education and attainment in the Great Southwest.

The first session of the College was held in a brick building still standing at 447 Aliso Street, and there, for many years, the work of instruction was carried on.

In 1895 the College came into possession of its present extensive site extending from Buena Vista to Castelar, between Ord and Alpine Streets, on which lots the buildings named below have been erected. This location is in the oldest portion of the city, founded more than a hundred years ago, and it is in this section of the city that the Mexican and foreign population is crowded. For these reasons, it has an admirable environment to draw from for clinical material.

The Founders' Building.—In 1895, this building, a three-story structure facing Buena Vista Street, was erected at a cost of \$20,000. This structure has been named the Founders' Building, as a tribute to the loyalty and work of the original members of the Faculty and their immediate successors, whose efforts made the erection of this building possible. The original Faculty included Doctors M. M. Bovard, J. P. Widney, W. G. Cochran, H. H. Maynard, Joseph Kurtz, W. Le Moyne Wills, G. W. Lasher, H. S. Orme, Walter Lindley, F. T. Bicknell, J. H. Utley, W. B. Percival, C. A. H. de Szigethy, A. McFarland, E. A. Follansbee, J. S. Baker, H. Nadeau, A. F. Darling and R. M. Widney. Among those who later became identified with the original faculty were Doctors W. L. Wade, F. L. Haynes, J. R. Haynes, H. Bert Ellis, D. G. MacGowan, H. G. Brainerd, D. C. Barber, N. P. Conrey, Wm. D. Babcock, F. D. Bullard, W. W. Beckett, George L. Cole.

The Hendryx Pathological Laboratory.—On January 6th, 1899, Dr. W. A. Hendryx, as a memorial to his wife, Lucy Sheppard Hendryx, presented to the College an admirably arranged and equipped two-story building, designed by Professor Stanley P. Black, for the Department of Pathology.

This building, which cost \$10,000, is located some distance from the noise and dust of the street.

The Dispensary Building.—The dispensary clinic rooms, until 1905 were in Founders' Building, but in that year, at a cost of \$20,000, a new building to the rear and south of the Hendryx Laboratory, was erected.

The Barlow Medical Library.—In 1906, Dr. W. Jarvis Barlow, a member of the faculty, erected on Buena Vista Street, just opposite Founders' Building, a library which he presented to the medical profession of the Great Southwest. It is a handsomely equipped fire-proof concrete-brick structure costing more than thirty thousand dollars. In this building the College has placed its library of more than five thousand volumes. The library facilities are open to the medical students and profession of the city and of the entire Southwest.

CLIMATIC AND GENERAL ENVIRONMENT OF LOS ANGELES.

There are few cities in the land located in a more desirable environment, than is Los Angeles, the "city of the Lady of the Angels." For its all-year-round climate, Los Angeles stands unsurpassed. In many portions of the East, Southern California is thought of only as a winter resort. Yet it is the testimony of those who have had opportunities to observe, that the summer climate of Los Angeles is better than that of the East, even more than its world famed winter climate excels the changeable and rigorous weather conditions of the Atlantic Coast and Middle West.

The days in Southern California are bright and pleasant, the nights are cool and the climate always tonic. The rush and bustle of the crowded thoroughfares are the best evidence of the non-enervating character of the atmospheric conditions. In winter one can bathe in the ocean at one of the beach resorts, breakfast and board the electric cars for the foothills and by afternoon be in the snowfields of Mount Lowe. The air is unsurpassed in its purity, for on the one side lies the Pacific and on the other the great deserts, with

little or no manufacturing or other impurities to contaminate the atmosphere.

No other city in the United States has been making such phenomenal strides in population and wealth as has Los Angeles, the Queen of the Great Southwest. In 1890, the census showed a population of 50,000 persons. By 1900, the number had increased to 102,000. Today, in 1908, a conservative estimate, based on the directory and school censuses and the data in the city water department, would be 300,000 persons. In addition there is a transient or tourist population of many thousands. There is but little doubt, that Los Angeles in a few years will be a community of half a million people. In fact, it is impossible to forecast the great and magnificent future that lies before this community, which has its being in what is one of the most favored sections of our country.

It is a city of culture and of progress, for the best blood and brains of the United States is pouring into this favored land in a most phenomenal flood. It is a good place to be born in, a better place to grow up and develop in and one of the best of all places to live one's life in.

Medical students, be they delicate or strong, can here obtain under the most pleasing environment a medical education equal to the best, and when they graduate, can at once enter into a practical realization of active work, which only a community growing in phenomenal strides of thousands of persons yearly can offer.

It need hardly be added that it is a distinct advantage to the young practitioner who begins practice in this very desirable section, to have previously gotten in touch with the faculty and the profession at large. This personal acquaintanceship and knowledge, not only softens many of the hard spots in active practice, but often leads to pleasant and profitable associations.

The civic and culture spirit of Los Angeles is of the best.

The educational tone of the city is evidenced in the magnificent public school system, in which the High and Polytechnic Schools form fitting cap-stones.

The University of Southern California has partaken of the prosperity of the community and is today an institution with

well-equipped and vigorous departments in liberal arts, music, fine arts, engineering, medicine, law, dentistry and pharmacy. Catalogues of the University may be obtained upon application to the President.

The College of Medicine of the University believes that it is justified in calling the attention of Eastern students to the peculiarly healthful and delightful climate of Los Angeles.

Many students on the Atlantic seaboard and in the Mississippi Valley find the rigorous winters interfering materially with their ability to study. To such it may be of interest to know that the Los Angeles winter is really an ideal summer; and that instead of the snow, sleet and ice experienced in New York, Philadelphia and Chicago, there is here in Los Angeles throughout the year, sunshine, flowers and oranges.

Living in Los Angeles is as cheap as in any other American city of like size, and the only special extra outlay for a student from the East is the car fare. Round trip excursion tickets can be purchased that are good for nine months. The cost, therefore, of pursuing a medical education at Los Angeles, a trip to California included, is no greater than in Eastern cities. The opportunities for an excellent training are as good as elsewhere, and the chances for success in private practice may be fairly said to be greater.

EQUIPMENT AND FACILITIES FOR TEACHING.

Each of the four buildings of the College of Medicine is well equipped for its special ends.

Founders' Building.—On the first floor of this building are the clerk's office, the faculty rooms, the north and west lecture rooms, the amphitheater, and men's coat and locker rooms.

On the second floor are the laboratories of general and chemical physiology, research laboratories in physiology, a lecture room, and the women's rooms.

On the third floor are placed the chemical laboratory and the research laboratories in chemistry, the prosecuting amphitheater, the anatomical museum, and the dissecting rooms.

In the basement are the cold storage and supply rooms.

These various rooms and laboratories are furnished with the most modern equipment and facilities.

Hendryx Laboratory.—The bacteriological, histological, and pathological laboratories, located in the Hendryx Laboratory Building are provided with the most modern type of quarters and apparatus.

Dispensary Building.—This newly erected building has commodious waiting rooms and possesses admirably arranged and equipped rooms for the clinics in medicine, surgery, eye, ear, nose and throat, gynecology, nervous and skin and genito-urinary diseases. A well equipped pharmacy and a clinical laboratory are attached.

Barlow Medical Library.—This Library possesses the most substantial structure of its kind west of the Mississippi and is devoted solely to medical library purposes. It is absolutely fire-proof and is adapted not only for general study, but for research work.

Didactic, Laboratory and Clinical Facilities for Teaching.—The lecture, laboratory, dispensary and library buildings of the College of Medicine are commodious, well arranged and equipped. The instruction is in charge of experienced teachers whose aim it is to carry on in the most thorough and successful manner, instruction in a curriculum that is in full accord with the standard of the Association of American Medical Colleges.

The respective value of didactic teaching, laboratory work and clinical demonstration is fully recognized and an effort has been made to give each a place and time in proportion to its importance and value.

In the primary studies, most of the professors give almost their entire time to teaching.

The didactic teaching is comprehensive and is given by experienced professors and instructors.

The laboratory facilities are unusually good and the work laid down, all that a student can thoroughly cover.

The clinical teaching is given at the Dispensary and at the Hospitals. The Free Dispensary of the College handles over 10,000 cases annually and here the students study in sections and under the supervision of competent instructors all the

diseases met with in ordinary practice. At the Los Angeles County Hospital, an institution with some 300 beds and several thousand patients annually, members of the faculty operate and give lectures and section teaching on patients from the surgical and medical wards four times each week.

The College Settlement with its visiting nurses maintained by the city, combined with the out-door clinic of the College Dispensary, offers an abundance of out-patient practice, the obstetrical facilities being excellent.

The Children's and Receiving and other semi-public hospitals, as well as the Barlow Sanatorium for Consumptives, the Helping Station of the Southern California Anti-tuberculosis League, as well as a number of private institutions, at which institutions members of the faculty care for many of their patients, offer other facilities for clinical observation, excelled by but few cities of like size in the entire United States.

METHODS AND PLAN OF INSTRUCTION.

The Regular Four Year Course.

The College of Medicine of the University of Southern California has been engaged in the work of teaching students medicine for twenty-four years. Aiming to do only thorough work, it adopted from the first a three-year graded course of instruction and was the fourth college in the United States to take this step. In 1896, it adopted a four year course of collegiate study, each year representing eight months in actual residence.

The studies are so graded that they follow one another logically, at the same time avoiding repetition. In the first two years the fundamental or so-called scientific and laboratory branches are largely considered, while in the last two years the time is spent mostly on the superstructural subjects, that is, on the principles and practice of medicine and surgery and their associated specialties, the aim being to apply scientific or laboratory methods to clinical experience.

Instruction is given:

By Lectures, often illustrated, to supplement the text-book study.

By Recitations, for which the student prepares himself by the study of assigned portions of a text-book.

By Conferences, in which instructors and students informally discuss assigned subjects.

By Laboratory Work, in which the students under the supervision of instructors perform for themselves the various experiments with which they should be familiar.

By Demonstrations, in which instructors perform before the class or sections of the class, experiments or dissections too complicated to permit of their being successfully done by students, these demonstrations being usually accompanied by lectures.

By Dispensary Clinics, where sections of a class, under the guidance of an instructor, consider the history and present condition, prognosis, diagnosis and treatment of the patients who present themselves.

By Hospital Clinics, where in medicine and surgery and the associated branches, practical instruction is given at the bedside and in the amphitheaters.

The whole curriculum is so arranged that the first two years in the primary studies make an admirable foundation for the advanced or clinical branches. The work in each department is so graded as to be a unified whole, one that will help give to the student at its completion a clear cut conception of the scope and importance of each domain of medicine and surgery and their correlated branches.

TABLE SHOWING DISTRIBUTION OF SUBJECTS AND HOURS

NAMES OF PROFESSORS	SUBJECTS Arranged Alphabetically	In what year of tau't?	No. of Crse	Page Ref- er- ence to Crse	Distribution of Hours by Classes (30 Weeks to the Year)								Grand Total	
					1st Year		2nd Year		3d Year		4th Year			Totals
					Di- dac- tic	Lab- ora- tory	Di- dac- tic	Lab- ora- tory	Di- dac- tic	Clin- ical	Di- dac- tic	Clin- ical		
	ANATOMY				58							300	420	720
Prof. Richardson	Descriptive Anatomy	2nd	2	59			120					120		120
Dr. Wiley	Descriptive Anatomy	1st	1	58	150							150		150
Dr. Molony	Dissections	1-2	3-4	59		300		120					420	420
Dr. Alden	Surgical Anatomy	3rd	5	59					30			30		30
	BACTERIOLOGY			67								60	90	150
Prof. Leonard	Bacteriology	2nd	1	68			30	90				30	90	120
	CHEMISTRY			60								120	195	315
Prof. Stabler	Inorganic Chemistry	1st	1-2	60	45	60						45	60	105
Prof. Stabler	Organic Chemistry	1st	3-4	61	45	45						45	45	90
Prof. Stabler	Clinical Chem. & Toxicology	2nd	5-6	61			30	60				30	60	90
	GYNECOLOGY			87								60	105	165
Profs. C. Kurtz and Beckett	Gynecology	3rd	1-2	87					30		30	60	60	120
Attending Clinicians	Dispensary Gynecology	4th	2	87							45		45	45
	HISTOLOGY & EMBRYOL.			62								45	195	240
Prof. Black and Dr. McQuiston	Histology	1st	1	62	30	180						30	180	210
Prof. Black	Embryology		2	62	15	15						15	15	30
	HYGIENE			75								45		45
Profs. Powers and Kress	Hvgiene and State Medicine	3rd	1	76					45			45		45

TABLE HOWING DISTRIBUTION OF SUBJECTS AND HOURS.—Continued

NAMES OF PROFESSORS	SUBJECTS Arranged Alphabetically	In what year taught?	No. of C'se	Page Ref- er- ences to C'se	Distribution of Hours by Classes (30 Weeks to the Year)								Grand Total
					1st Year		2nd Year		3rd Year		4th Year		Totals
					Di- dac- tic	Lab- ora- tory	Di- dac- tic	Lab- ora- tory	Di- dac- tic	Clin- ical	Di- dac- tic	Clin- ical	
	MED. JURISPRUDENCE			90								15	15
Mr. Porter and Mr. Bennett	Medical Jurisprudence	4th	1	90							15		15
	DIS. NERVOUS SYSTEM			82								30	120
Prof. Brainerd & Dr. Moore	Diseases Nervous System	4th	1-2	82							30	30	60
Dr. R. Moore	Dispensary Clinics	4th	3	82								60	60
	OBSTETRICS			76								150	210
Prof. M. L. Moore	Obstetrics	4th	3-4	77							60		60
Dr. Lazard	Obstetrics	3rd	1	77					60			60	60
Dr. Coffey	Dispensary Obstetrics	4th	2	77							30	60	90
	OPHTHALMOLOGY			88								15	60
Prof. Ellis and Kiefer	Ophthalmology	3rd	2	88					15			15	15
Dr. Bullard and Kiefer	Dispensary Clinics	4th	1	88							45	45	45
	OTOLOGY, ETC.			88								30	75
Prof. Hastings	Otology, Rhinology & Laryn.	3-4	1-2	89							15	15	15
Drs. Kelsey and Dudley	Dispensary Clinics	4th	3	89					15			45	60
	PATHOLOGY			69								90	350
Prof. Black	Pathology											260	240
Prof. Black & Dr. Anderson	Clinical Microscopy	2nd	1	70			60	180				60	90
Prof. Black & Dr. Ross	Gross Pathology	3rd	3	71					30	60		30	20
		3-4	4	71						10		20	

[illegible]

CALENDAR

Twenty-fourth Annual Session (1908-1909.)

1908—

October 1, Thursday.—Matriculation of new students.

October 2-3, Friday and Saturday.—Entrance examinations for new students and re-examinations for conditioned students.

October 5, Monday.—Matriculation of upper classmen.
8 P.M.—General assembly of faculty, students and alumni in amphitheatre of Founders' Building.

November 25, Wednesday.—Annual faculty reception to alumni and students.

December 23, Wednesday.—Christmas vacation begins
Wednesday evening.

1909—

January 4, Monday.—Lectures resumed.

February 1-6, Monday to Saturday.—Mid-year examination week.

May 24, Monday.—Senior examinations begin.

May 31, Monday.—Undergraduate examinations begin.

June 7, Monday.—Commencement week of University begins.
gins.

June 11, Friday.—Commencement exercises of the College of
Medicine, U. S. C.

(Note: On all legal holidays in California, the schedule is suspended.)

REQUIREMENTS FOR ADMISSION.

The College of Medicine of the University of Southern California admits men and women on equal terms.

Only such persons will be matriculated as show that they are fitted by previous education to study medicine. The Association of American Medical Colleges lays down as its minimum requirement of preliminary education, for entrance into a medical college of recognized standing, a diploma from a high school giving a four-year course.*

A student who applies for admission, and who cannot show either a diploma from a high school giving a four-year course, or something more, must have his credentials passed upon by, and if necessary, take an examination from the examiner appointed by the California State Board of Medical Examiners. The office of the California State Board of Medical Examiners, is San Francisco, California, and at the time this catalogue goes to press, the address of the deputy examiner on preliminary education, is Miss Gertrude Henderson, 2010 West Sixth Street, Los Angeles, California.

Prospective students will greatly lighten the labor of having their credentials passed upon by providing themselves with the certificate shown on the opposite page (additional copies of which will be sent on application) and having the same duly filled in by the proper authorities. Such a certificate should be presented for every high or preparatory school or medical college attended.

The Dean of this College must favorably pass upon all credentials, before the Secretary will unconditionally matriculate students.

Examinations in preliminary education, as well as in conditioned subjects of the medical curriculum should be taken on the three days prior to the opening of the regular Fall session. By so doing both time and money will be saved.

Further details concerning admission to the freshman or upper classes are given below.

*After January 1st, 1910, the College of Medicine, U.S.C., will demand for its entrance requirements, in addition to a four-year high school course, a year of nine months to be devoted to physics, chemistry, biology and one modern language, preferably German.

1. Admission to Freshman Class.

A. Admission Without Examination.

Students are admitted to the freshman class without examination:

1. Upon presenting a diploma from an accredited high school, normal school or academy requiring for admission evidence of the completion of an eight-year course in primary and intermediate grades, and for graduation not less than four years of study embracing not less than—

Two years (4 points) of Latin.

Two years (4 points) of mathematics.

Two years (4 points) of English.

Two years (4 points) of laboratory science.

One year (2 points) of history.

Six years (12 points) of further credits in language, literature, history or science.

2. Upon presenting a bachelor's degree from an approved college or university.

3. Upon presenting satisfactory entrance credentials and attendance credits to and in the regular course of an approved college or university.

(NOTE—One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each, for eighteen weeks. Two points represent one year's work, five hours each week, in any subject. Approximately, one year of work represents 1 unit, 2 points, 2 credits, 4 counts.)

B. Admission Upon Examination.

Students are admitted to the freshman class upon examination when they are unable to comply with the foregoing requirements. Such prospective students must take an examination from the deputy examiner on preliminary studies, appointed by the California State Board of Medical Examiners, whose name will be found on the bulletin board of the College, or whose address will be sent on application.

This examination is intended to test whether the candidate possesses an equivalent of the ordinary four-year high school course. The examination will be on the subjects enumerated below, the candidate being required to have 18 points in the required branches and 12 points in the optional branches. A student may be entered for the freshman class on a total

of 24 points, but the conditioned subjects (representing not more than six points) must be passed before the student is allowed to enter the second year of his medical course.

The examinations on preliminary education embrace the following subjects:

A. Required (18 points:)

Mathematics (4 points.)

English (4 points.)

History (2 points.)

Latin (4 points.)

Science (4 points) (taken from physics, chemistry, botany, zoology.)

B. Optional (select 12 points:)

English (2 points.)

History (6 points.)

Language (6 points.)

Manual Training (2 points.)

Mechanical Drawing (1 point.)

Natural Science (botany, zoology; 2 points.)

Physical Science (chemistry, physics; 2 points.)

Trigonometry (1 point.)

Astronomy (1 point.)

Civics (1 point.)

Geology (1 point.)

Physical Geography (1 point.)

Physiology and Hygiene (1 point.)

Political Economy (1 point.)

2. Admission To Upper Classes.

A. Admission of Students from Approved Regular Medical Schools.

Students of other recognized and approved regular medical schools may be admitted to the College as follows:

Those qualified to enter any year and class of their own school, may be admitted to the corresponding year and class of this College, provided, however, (1) that the preliminary requirements of the said school are equivalent to those of this College; (2) that the studies pursued by the applicants in their previous year or years are reasonably equivalent of those in this College; (3) and that the requirements for ad-

vancement from class to class are the equivalent of those in this College. Where studies given in this College have not been taken, the student may be required to pursue these subjects in this College, and when deemed desirable, an examination in the subjects in the prior courses at this College, which were pursued elsewhere, may be required.

Students who wish to enter with advanced standing must bring satisfactory credentials covering their education preliminary to medicine, and must also present official credentials from the deans of medical colleges previously attended, certifying to the applicant's professional and moral qualifications, and to the exact work he has done in the said medical colleges. The statement regarding dissections should give in detail the parts of the body which have been satisfactorily dissected (head, arm, thorax, abdomen and leg.)

Students who have attended college elsewhere, will not be admitted to higher advanced standing than that which would be granted by the institution from which they come.

The certificate printed on page 26, complies with the rules of the Association of American Medical Colleges and is recommended for use.

B. Admission of Students from Other Professional Schools.

Time credits may be given to students who have the necessary entrance requirements, and who are graduates or students of colleges of Homeopathic or Eclectic Medicine, for such courses of instruction of the required duration as they have successfully fulfilled, excepting in the course of the fourth year, provided that they also pass satisfactory examinations in materia medica and therapeutics and any other deficient subjects.

No advanced standing or time credits can be given for degrees in Dentistry, Veterinary Medicine, Pharmacy or Osteopathy.

C. Admission of Graduates of Institutions of Arts and Sciences.

No time credits can be given to holders of bachelor degrees, but subject credits may be given on satisfactory examination, or on presentation to professors, of adequate subject cre-

dentials. The rule of the Association of American Medical Colleges is that four years of residence in a medical college shall be required of all candidates for the degree of Doctor of Medicine.

REQUIREMENTS FOR ADVANCEMENT FROM CLASS TO CLASS.

Students are divided into four classes, according to their proficiency and time spent in studies, viz.: First Year or Freshman, Second Year or Sophomore, Third Year or Junior, Four year or Senior.

The standing of the students in their college work is based on their work in the classroom, laboratories, clinics, and on their attendance, the relative value to be placed on each of these items being left to the individual teachers. A student absent from more than twenty per cent. of a course forfeits his right to take an examination in that course, unless the time up to 80 per cent. be subsequently made up, when the Educational Committee may give such student permission to take a supplementary examination in such subject.

The numerical grades to be given students are based on a passing mark of seventy-five per cent. When a student falls below 75 per cent. he is conditioned and is required to take a supplementary examination, by arrangement with the proper teacher, on one of the three days just prior to the opening of the fall term. Conditioned students will present themselves at the Clerk's office at this time and learn from him or from the bulletin board announcements, the hours for the supplementary examinations. Students who do not present themselves at this time must pay the regular fee for second re-examinations.

Members of the Faculty do not give to students their numerical grades, but may give verbally to students their grades according to the following clasification:

Grade A, representing a numerical marking between 90 and 100.

Grade B, representing a numerical marking between 80 and 89, inclusive,

Grade C, representing a numerical marking between 75 and 79, inclusive.

Grade D, representing a numerical marking below 75—conditioned.

Students who are conditioned in two or more subjects or who have failed in re-examination shall have their markings reviewed by the Educational Committee, and that committee may call such students before it and shall decide whether re-examinations shall be allowed, or whether the work involved in the conditions shall be repeated in class, in whole or in part, or whether the entire year's work shall be repeated.

When the general average for the studies of any year is less than 75 per cent., or when the student has been absent from the College work for more than twenty per cent. of the time, or when, even though his general average be above seventy-five per cent., he fail in subjects representing more than forty per cent. of the time of that year (one hour of lecture or recitation being construed as equivalent to three laboratory hours), then such student may be required by the Educational Committee to repeat the year again, but may be given credits in such subjects as the Educational Committee may decide.

All students are required to work off conditions before the opening of the succeeding session. Under extraordinary circumstances students may be allowed until after the Christmas holidays to work off conditions. If conditions are not worked off at that time, such students may be debarred from the midwinter examinations.

Any student, after proper request, upon the recommendation of the Educational Committee, may have the privilege of being re-examined in a conditioned subject, by a special committee of three to be appointed by the Educational Committee.

At the end of the year, or so soon thereafter as the records will allow, the Secretary will notify all students who have fulfilled their financial obligations to the College, of their alphabetical grades, calling the attention of conditioned students to their conditions and that such conditions must be worked off before the opening of the succeeding term.

Students who have not worked off their conditions by the beginning of the succeeding session shall be reported to the Educational Committee, which committee shall recommend such action as may be deemed best.

REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Medicine from this College must have fulfilled the following conditions:

1. He must have attained the age of twenty-one years.
2. He must be of good moral character and must have maintained an irreproachable moral standing while in attendance at this College.
3. He must have been engaged in the study of medicine for a period of at least four years, and must have attended four full courses in separate calendar years, the last of which must have been in this College.
4. He must have passed the required examinations in all the studies of the curriculum.
5. He must have dissected at least a median half of the human body.
6. He must have been present at no less than two cases of obstetrics.
7. He must be present at Commencement unless excused by the Dean.
8. He must have paid in full all college fees.
9. He must, in addition to the above, have received the vote of the faculty as a person qualified to become a Doctor of Medicine.

SPECIAL, QUIZ AND POST-GRADUATE COURSES.

Courses in special or regular studies of the curriculum can be arranged through the Secretary.

Graduates in medicine who desire to prepare themselves for State Board examinations as well as to make a theoretical and clinical review will find that this College offers exceptional advantages for such work. Details of such special and post-graduate courses are to be arranged with the Dean and Secretary.

The California State Board examinations are held on the first Tuesday of April, August and December, and several months prior to each of these examinations a special quiz class is formed, if there be a sufficient number of applicants, for those who wish to review for these examinations.

COMBINED SIX-YEAR COURSE FOR THE DEGREES OF BACHELOR OF ARTS AND OF DOCTOR OF MEDICINE.

For such prospective students who desire to prepare themselves for the study of medicine by pursuing in addition to the ordinary high school training, a course of collegiate study, the University of Southern California offers special advantages. This University recognizes that the four-year medical course, properly pursued, is the equivalent of two years of the ordinary four-year course leading to a Bachelor of Arts or equivalent degree. As an expression of its recognition of this fact, this University allows students who so desire to obtain the combined degrees of Bachelor of Arts and Doctor of Medicine at the end of a six-year course of study, two of which shall have been in liberal arts (at least one-half year of this liberal arts work being done in the College of Liberal Arts of this University) and the remaining four years' work having been pursued in a medical college (the last two, at least, in the College of Medicine, U. S. C.) Further details concerning this combined course are as follows:

A credit of thirty to sixty semester hours, that is, one to two years of study, will be granted on the course leading to the degree of Bachelor of Arts (A. B.) in the College of Liberal Arts, on completion of the medical course of the University, to such students in the College of Medicine as have pursued in the College of Liberal Arts of this University or some other approved institution, studies in art and science, equivalent to those offered in the freshman and sophomore curricula of the College of Liberal Arts; provided, that all candidates for these combined degrees, even though they may have elsewhere pursued two years or more of work in an approved institution must have completed in addition to the

above, a minimum of at least eighteen semester hours' work in the College of Liberal Arts of this University.

Such a student must meet the conditions as to required studies for admission to the College of Liberal Arts. He will be granted credits on studies in arts and science pursued in other approved institutions only in so far as they are the full equivalent of studies offered in the first two years of the curriculum of the College of Liberal Arts of this University.

He must matriculate at the College of Liberal Arts for at least two years.

The number of hours credit (30 to 60 semester hours) granted on the work covered in the College of Medicine will be determined by the character of the work done by the student in that department.

The degree of A. B. will not be conferred until the close of the college year in which the medical degree is granted.

The regulations for the current year shall prevail concerning fees; that is, the candidate for the combined degrees, in addition to his tuition in the College of Medicine, will pay to the College of Liberal Arts, the regular fees for the hours of work actually done in that department, as enumerated in the table of fees in this catalogue.

Detailed information concerning courses in the College of Liberal Arts is to be found in the University Catalog, a copy of which will be sent if application be made to the President of the University.

Studies Included in the Preliminary Course of Medicine:

Students electing the combined course leading to the degrees A.B. and M.D. are supposed to have completed a course similar to Course C or D in the Preparatory School of the University (see University Catalog), that is, Drawing, Chemistry and Physics are required. At least one year of Latin is also required. (Any of these subjects not offered for entrance should be made up in the freshman year.)

The required studies in the College of Liberal Arts are the same as those for the regular candidate for the degree A.B., except that Zoology should be the elected Science;

German, the elected Language, provided Latin has been offered for entrance.

The required studies are outlined as follows:

Freshman Year.

English (Rhetoric, I.).....	3 hours throughout the year
Science (Zoology)	4 hours throughout the year
Mathematics	3 hours throughout the year
Language (German, if Latin has been offered for entrance)...	5 hours throughout the year
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Total	15 hours throughout the year
*Elective (as French, Drawing, Botany	3 hours throughout the year
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Total	18 hours throughout the year

Sophomore Year.

Philosophy (Psychology)	3 hours throughout the year
Language (German)	3 hours throughout the year
Elective (Biology, English, and History, specially recom- mended	9 hours throughout the year
<hr/>	
Total	15 hours throughout the year
*Elective	3 hours throughout the year
<hr/>	
Total	18 hours throughout the year

COMBINED COURSE FOR THE DEGREES OF MASTER OR ARTS AND OF DOCTOR OF MEDICINE.

Upon students who begin the course in the College of Medicine of the University after receiving the Bachelor's degree from the College of Liberal Arts or from other institutions approved by the College of Liberal Arts, the degree of Master of Arts will be conferred under the following conditions:

A candidate, that is, a student holding an A.B. or equivalent degree, for the degree of Master of Arts who is at the same time pursuing the regular course in the College of

*Students may register for as few as thirteen hours each semester, or as many as eighteen.

Medicine must matriculate in the College of Liberal Arts at least two years before receiving the Master's degree. The degree of Master of Arts may then be granted at the same time the candidate receives the degree of Doctor of Medicine.

The candidate's research work must be planned in conjunction with the Committee on Graduate Study in the College of Liberal Arts.

Reports of progress in the research work shall be made at such times as may seem advisable to the Committee. The results of such work must be embodied in a thesis approved by the Committee on Graduate Study.

The requirements for obtaining the degree of Master of Arts from the University are as follows:

The degree of Master of Arts (A.M.) is conferred upon graduates of the College of Liberal Arts of the University and upon others who have had equivalent training elsewhere, on completion of an approved course of graduate study equivalent to thirty semester hours.*

At least sixteen semester hours of the work for the Master's degree must be chosen from one department, in which the candidate has previously completed the undergraduate major work, or equivalent. This advance work will be the major subject. Six semester hours must be taken in some department other than the major. This will be the minor subject. The remainder of the work (eight semester hours) may be chosen from any departments approved by the Faculty.

The Master's degree may designate the special course pursued—e. g., Master of Arts in Science.

Candidates in residence must register not later than the first Tuesday in October next preceding the date of the final examination. Non-resident candidates must register one year earlier.

A thesis embodying the results of investigation on an ap-

*A semester is half the college year, and a semester hour means one exercise a week throughout a semester. It is intended that each hour of credit shall represent, for the average student, one hour of recitation or lecture plus two hours of preparation or subsequent reading per week, or an equivalent three hours work in laboratory courses per week. Fifteen hours per week in recitations or lectures, or their equivalent in laboratory work, constitute an average semester's work.

proved subject in the major department must be submitted and be approved by the major professor before the candidate may be recommended for a degree.

The subject for the thesis must be submitted to the Faculty for approval through the major professor not later than January 10th, and the completed thesis not later than the last Saturday in May, of the year in which the degree is desired. The thesis must be typewritten on paper 8x10 inches in size, and copies of the same deposited in the libraries of the College of Liberal Arts and of the College of Medicine of the University.

The regulations of the College of Liberal Arts for the current year shall prevail concerning fees and thesis.

FEES FOR COURSES IN THE COLLEGE OF MEDICINE.* **Matriculation Fee.**

A matriculation fee of five dollars is charged all students, both regular and special. This fee is invariably payable in advance and no classes can be entered until it is paid. It is payable but once. Attendance cards to new students are not issued by the Clerk until this fee is paid.

Tuition Fees for the Regular Course.

First or Freshman Year.

Full Course, including all laboratories, dissections,
library fees, etc.....\$130.00

Second or Sophomore Year.

Full Course, including all laboratories, dissections, etc.\$130.00

Third or Junior Year.

Full Course, including all laboratories, clinics, etc.....\$130.00

Fourth or Senior Year.

Full Course, including all clinics, graduation fees, etc.\$130.00

The annual fee is due and payable before November 1st. To secure the tuition at the above rate, the entire amount, \$130, must be paid before that time. If the whole fee of \$130

*The fee table in vogue at the time of a student's first full course of lectures, will be carried out for such student unless it works a manifest injustice. Other financial regulations such as paying in advance, or otherwise adding ten dollars to the tuition of that year, apply to all students.

is not paid before November 1st, the annual fee paid on or after that date will be \$140 for that year. Of this \$140, at least \$80 must be paid before November 1st, and the \$60 additional before February 1st.

A part of the regular tuition fee must be paid before attendance cards will be issued to the upper classmen by the Clerk.

If for any reason, a student be unable to pay his tuition or other fees on the scheduled time, then such student must give a note for the amount signed by two satisfactory sureties. The entire indebtedness of any student must be paid before any examinations can be taken or before time and subject credentials will be issued.

Deposit Fee

An annual deposit fee of ten dollars is required of all students as a precaution against breakage or injury to apparatus in the laboratory, unnecessary damage to the buildings or loss of instruments in laboratories and clinics. This fee must be paid on or before the second Monday in October of each year, and is refunded in case no injury or loss occurs.

If during the session, because of breakage or other damage, a student's deposit fee be reduced to the sum of two dollars, then such student must advance an additional deposit fee of five dollars.

For apparatus and material attached to this laboratory desk, the student will be held responsible and will give a receipt to the professor or instructor.

If laboratory or other material be not restored in full or complete order, the professor or instructor will write on the receipt the amount to be deducted.

Refunders may be presented to the Secretary of the Faculty through the Clerk.

Deductions to cover the loss will be made from the deposits of individual students, when it can be determined who caused the breakage or loss of apparatus or defacement of buildings. When it cannot be so determined, the value of the loss or injury will be deducted *pro rata* from the deposits of all students.

Locker Fees.

A fee of twenty-five cents a year will be charged for every locker which amount will be deducted from the deposit fee when the keys are turned in at the end of the year.

Fees for a Full Post-Graduate Year.

Graduates of Medicine from other colleges who wish to take the work of an entire year or its equivalent will pay the matriculation fee and the tuition fee of \$130 on the same terms as those applying to the regular course.

Fees for Special and Quiz Courses.

Special students will pay the regular matriculation fee of five dollars and will be charged from ten to twenty-five dollars per year for each study they elect to pursue. When special laboratory work is carried on, extra fees may be charged.

Fees for Graduates of This College.

Graduates of this College who pay an admission fee of five dollars will be entitled to attend any lectures they may desire to take, in the regular courses. For laboratory courses, fees will be charged according to the character of the work.

Fees When Year Is Repeated.

When, for any reason, a student of this College is required to repeat a year, then the fee for such year is reduced one-third.

Hospital Fee.

This fee is made by the County Hospital authorities, and will not exceed five dollars.

No Fees for Visiting Physicians.

Practitioners who are visiting the city are always welcome to attend clinics and lectures and by applying to the Dean, Secretary of the Faculty or to the Clerk of the College, can obtain tickets granting them this privilege for one week.

Fees for Re-examinations.

Conditioned students who fail in their first re-examination, are required to pay a fee of two dollars, payable to the Clerk, for subsequent examinations in each subject.

Conditioned students who fail to take the re-examinations at the beginning of the fall term, on the days mentioned in the catalogue and posted on the bulletin board, are required to pay to the Clerk, a fee of two dollars for subsequent examinations in each subject.

Fees Not Transferable.

Fees are not transferable.

Fees Refundable Under Certain Conditions.

No refund of tuition fees is allowed except in cases of serious illness and then only in such amount as the Finance Committee may deem equitable, three-fourths of the amount covered by the actual absence, being the sum usually allowed.

FEES IN COLLEGE OF LIBERAL ARTS, FOR COMBINED COURSE LEADING TO DEGREES OF A.B. AND M.D.

Undergraduate Courses in Arts and Sciences.

See College of Liberal Arts, page 40.

FEES IN COLLEGE OF LIBERAL ARTS FOR COMBINED COURSE LEADING TO THE DEGREES OF A.M. AND M.D.

Graduate Study in Arts and Sciences.

See College of Liberal Arts, page 40.

MISCELLANEOUS INFORMATION.

Prizes.—The following prizes have been offered:

The Barlow Senior Prize, a prize of one hundred dollars, to the Senior who makes the best standing in the work of the Junior and Senior year; and

The Barlow Sophomore Prize, a prize of fifty dollars, to the Sophomore who makes the best standing for the work of the Sophomore and Freshman years.

In addition to these prizes, members of the faculty not infrequently offer special prizes for the best work done in laboratories, or best standing or reports of clinical or class room work.

Interneships.—The great advantage of practical hospital experience following graduation is fully recognized by this College and exceptional opportunities in this connection, are within the grasp of all properly qualified graduates of the institution. Among such may be mentioned:

The Los Angeles County and City Hospital, an institution of three hundred beds, and with a large out-patient service in addition, where exceptional opportunities exist for the house physicians to acquire an intimate knowledge of disease and injury in all its phases. To this institution, the College of Medicine, U. S. C., annually sends four members of its graduating class.

The California Hospital, a unique institution of several hundred beds, which bears the distinction of being the largest hospital in the United States exclusively owned and controlled by physicians. From its inception this institution has had prominently identified with it, present or former members of the faculty of this College and its three positions as internes are open exclusively to members of this College.

The Sisters' Hospital, a magnificent institution for both charity and private work, with a capacity of two hundred beds and also a large out-patient service, which for the past several years has been annually served by several internes who were graduates of this College.

Other institutions to which the students are eligible, are the Children's, mining and corporation, as well as numerous railroad hospitals.

For a number of years the faculty of this College has been able to find positions in hospital or corporation work for all properly qualified graduates who desired hospital experience, and not infrequently has had more positions at its disposal than could be filled.

Graduate Assistantships in Clinics.—Opportunity is given graduates of the College, residing in or near Los Angeles, who desire to follow the work of special clinics, to secure this experience and work without charge, by being enrolled as Voluntary Clinical Assistants. As the Dispensary and Out-

patient work is large and constantly growing, this work may be made to be of great value.

Student Assistantships.—In several of the Departments, especially of the first two years, there are opportunities for students who are especially interested in the work of such Department, to secure positions of student assistants, with special facilities for doing research work.

Young Men's Christian Association.—The Young Men's Christian Association of Los Angeles, shows special courtesies to students, and the Clerk of the College will give letters of introduction to such students as desire to avail themselves of its privilege. The same holds true of the Young Women's Christian Association.

Class Organizations and Students' Executive Committee.—The various classes each year effect class organizations, the four class presidents constituting the Students' Executive Committee, the function of which committee is to represent the interests of the student body to the faculty when occasions so demand, and to act in a general executive capacity for the students. The executive committee for the session of 1907-1908 consisted of Messrs. A. C. Macleish, '08; P. P. Osburn, '09; C. F. Shank, '10, and J. W. Nevius, '11.

College Scientific Club.—This is an organization of students which meets once a month to read and discuss papers and to present and discuss patients or specimens.

The organization aims to drill its members in the art of presenting their opinions with facility and ease and in preparing their papers and programs, to use to best advantage the exceptional opportunities offered by the Barlow Medical Library.

Fraternities.—The Nu Sigma Nu and Phi Rho Sigma (men's), and Alpha Epsilon Iota (women's) national medical fraternities maintain chapters in the College.

Los Angeles County Medical Association.—The medical profession of Los Angeles county is probably better organized than in any other portion of the State of California and its scientific, social and material interests are correspondingly conserved.

In additions to branches in outlying towns, as well as sections in the specialties, such as eye, ear, nose and throat, and obstetrics, the Los Angeles City Branch meets weekly, one meeting every month being exclusively given over to clinical presentations. The students of this College are invited to attend the excellent weekly scientific programs which are being constantly presented. The weekly programs may always be found on the bulletin board.

Annual Receptions.—The Faculty, the Alumni, the Students, as well as the University as a whole, at different times during the year hold annual receptions to the end of welcoming new students and allowing faculty and alumni to meet in reunion. These receptions and dinners are occasions of very considerable pleasure to the large number of persons who participate therein.

Alumni Association of the College of Medicine of the University of Southern California.—For more than twenty years the College of Medicine, U. S. C., has been engaged in the work of teaching the art of medicine. During that period, more than two hundred graduates have left its halls to take up their life work as physicians, the majority of them in this wonderful section of the Great Southwest. The high professional standing to which these graduates have attained and the common bond of sympathy between all connected with the College, has been a source of much extra professional courtesy as well as the means of considerable material advancement to many of the younger graduates.

While in no sense a close corporation, the alumni and the faculty feel that graduation from this College should stand to those who subsequently practice in Southern California and the Southwest, as a synonym and source of special professional courtesies and profit.

In addition to the Annual Alumnaal reception at the College there is an alumnaal banquet during commencement week, at which time the graduating class is welcomed into membership.

The Alumni Association of the College of Medicine of the University of Southern California was founded several years

ago by the graduates living in and near Los Angeles. Quarterly meetings, of a social character, are held on call by the executive officers. Those desiring to become members are requested to send their names to the Secretary. The dues are nominal.

The officers of the Alumni Association for the current year are: President, Dr. Raymond G. Taylor; vice-president, Dr. P. C. H. Pahl; secretary, Dr. E. M. Lazard; treasurer, Dr. E. T. Dillon; executive committee, Dr. Frank D. Bullard, Dr. John G. Ferbert, Dr. H. G. McNeil.

Athletics.—In addition to the local facilities for athletic diversion, students of the College also find opportunities for physical development in both Y. M. C. A. and the University Gymnasia, and students of the College are eligible to places on the foot-ball, base-ball and track teams of the University.

Discipline and Good Order.—All students are expected to observe the principles of good conduct and order while attending the College, and plain infractions of the rules will be referred to the Executive Committee of the Faculty, with recommendation of reprimand, suspension or expulsion.

Suggestions to Prospective Students.—It would be to the advantage of students if they would matriculate a few days in advance of the opening exercises, secure boarding places, and fulfill the entrance requirements, so that their studies may not be interrupted in the beginning.

The twenty-fourth regular session opens Monday evening, October 5, 1908.

Board and Lodging.—Good board and lodging vary in price from three and a half to six dollars per week. Rooms for those who wish to board and lodge themselves, will cost from six to ten dollars a month. By forming boarding clubs, students may reduce the cost of board to two dollars a week.

A list of desirable rooms and boarding places may be obtained by addressing the Young Men's and Young Women's Christian Association of Los Angeles or by inquiring at those organizations or at the office of the Clerk of the College.

How To Reach the College.—Students who desire to go directly to the College, should transfer to yellow Garvanza or Griffin Ave. cars, going north on Main street. These cars

stop in front of the College buildings. The office of the Clerk of the College is on the first floor of Founders' Building. The janitor's residence is in the rear of the Dispensary building facing on Castelar street.

The street address of the College of Medicine, U. S. C., is 737 Buena Vista Street, Los Angeles Cal.

The Clerk of the College, Mr. F. C. McKinnie, is in his office in the Founders' Building from 9 A.M. to 12 noon and from 1 to 5 P.M. and will be glad to answer questions and extend courtesies to visiting physicians and prospective students.

Full details of all courses, with program of hours of recitation, etc., are given in the catalogue of the College of Medicine which will be sent on application to the Secretary.

The Dean and Secretary may be seen at their respective offices, as follows:

The Dean, Dr. W. Jarvis Barlow, 616 Security Building, Fifth and Spring streets, Los Angeles;

The Secretary, Dr. George H. Kress, 602 Johnson Building, Fourth and Broadway, Los Angeles.

Matriculation.—All new students must present their credentials to the Dean and must then matriculate with the Secretary of the Faculty.

For additional information, apply in person to the Dean or Secretary, or address,

DR. GEORGE H. KRESS,
737 Buena Vista Street,
Los Angeles, Cal.

THE COLLEGE OF DENTISTRY

OFFICERS

THE BOARD OF TRUSTEES.

Term Expires 1909.

W. H. Spinks, D. D. S. J. D. Moody, D. D. S.
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Term Expires 1908.

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Term Expires 1910.

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E. L. Townsend, D. D. S.	President
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EDUCATIONAL COMMITTEE.

L. E. Ford, D. D. S. Chas. D. Lockwood, A. B., M. D.
J. D. Moody, D. D. S.

ANNOUNCEMENT

The twelfth session of the College of Dentistry, University of Southern California, will be opened Tuesday evening, October 6, 1908, in the Auditorium of the College, corner of Fifth and Wall streets, Los Angeles.

The great advantage of taking "A winter course in June weather," has become evident to a yearly increasing number of students. But the climatic advantages of Southern California, though great, are not the chief ones offered by the College of Dentistry.

The College is incorporated not for profit, but as an educational institution strictly. Its Board of Control has members appointed by the Dental Societies of Southern California, the alumni of the College, and the University. The income of the College from whatever source, is expended for equipment and instruction, all for the benefit of the students, and not for paying dividends to stockholders.

This College also affords the advantages incident to a school of moderate numbers. The individual student is not lost by being one of a great number, but is known personally by his teacher—a decided benefit.

It is the purpose of the faculty to maintain a high standard of admission, a high school diploma or its equivalent is now necessary for entrance to the college.

Los Angeles is situated 485 miles south of San Francisco, about mid-way between the ocean and the Sierra Madre Mountains. Its climate is salubrious and probably the most equable where English speaking people reside. During the past five years its population has increased at the rate of three thousand a month and now we have a city of about 275,000 inhabitants.

During the winter months from forty to fifty thousand tourists from the East seek the sunshine and pleasure of our climate, and during the summer nearly as many come to the cool coast from the interior States. The same conditions that make it desirable for the tourist make it attractive for the student. We have neither excessive heat nor cold, but every day is a working day.

There are nearly 365 days in the year that one can be out of doors and not be uncomfortable on account of the weather.

Students from the East can come here and attend College at no greater expense than if they remained at home, and at the same time enjoy the climate which attracts the tourists by the tens of thousands.

DEPARTMENTS.

Operative Dentistry.

Professor Ford, Associate Professors Jordan and Gray.

In the department of operative dentistry, the object is to develop the subject in a logical sequence from the fundamental principles in the freshman year up to the practical details of a general office practice in the senior year. The application in the infirmary of the theories taught in the lecture room is insisted on, and a large part of the senior lecture course consists in a study of the various defects and mistakes made by students in their infirmary work, to the end that the failures incident to a beginner may be corrected in college before the applicant presents himself to the public for patronage. Toward the close of the senior year the student, in his infirmary practice, is expected to study each case that is presented to him and in his own mind must decide as to the proper procedure to follow. After he has reached this decision he must call an instructor and state the results of his deliberations. His decision is then affirmed or corrected. This is done for the purpose of developing in the student the habit of individual study of his case, and also to teach him to exercise his own judgment instead of relying always on the judgment of others.

In view of the increasing importance of the subject of inlays, a very thorough course of instruction will be given in this class of work. The advantages and limitations of inlays in general, and the indications for porcelain and gold inlays, together with their manufacture, will receive detailed and careful consideration. A true conception of the possibilities of inlays is necessary for the advanced dental practitioner of today, and this fact is recognized and met in the most practical manner in this course.

If qualified at the beginning of the second semester, Juniors are permitted to work in the Infirmary.

In connection with this department Professor Jordan will give a course of lectures on The Care and Management of Children's Teeth.

This course will consider pre-natal influences, and the nutrition and development of the child as relating to the teeth; the treating, filling and extraction of children's teeth; the disturbances found in the oral cavity incident to the first dentition, and the management of children in the office.

Students from other colleges entering our Senior year are required to pass an examination in Care of Children's Teeth; if not qualified they will take the Junior course of lectures covering this branch.

Anatomy.

Professor Kirkpatrick, Dr. Choate.

Instruction in anatomy is given by means of lectures, recitations, quizzes and practical demonstrations on the cadaver throughout the entire year.

The dissecting room will be in charge of the demonstrators, who will personally superintend the work of the students and examine them upon their own dissections.

Physiology.

Professor Pallette, Associate Professor Jenks.

The course of Physiology is given during the first and second year. The work consists in a systematic course of lectures, recitations and demonstrations.

The subjects of Cells and Tissues, Blood and the Circulatory System, are first taken up, and later the course is devoted to the study of the Alimentary Canal Excretory Organs, Nervous System, Organs of Special Sense, and Organs of Reproduction.

Histology—Dental Histology—Bacteriology—General

Pathology.

Professor Leonard, Dr. Morris.

In our new laboratory, equipped with thirty-five new microscopes and every appliance and convenience, these departments are conducted in such a manner as to be of great benefit to a dental student. Histology and Dental Histology are given in the Freshman year, Pathology in the Junior, and Bacteriology in the Senior year.

Comparative Dental Anatomy.

Professor Bebb.

This course covers a comparison of the teeth and surrounding tissues of a man with those of the lower order of animal life. This is made more interesting and instructive to the student by the collection of crania, numbering 1500 specimens, which our museum affords, and a complete series of lantern slides for illustrating the lectures.

Students are required to make drawings and to prepare and mount one or more specimens.

Dental Anatomy.

Dr. Packard.

The first month is given mostly to the study of dental nomenclature, or the study of the names of thing with which the student must become familiar in the course of his dental studies. Then descriptive human dental anatomy is taken up and the forms and surface marking of each tooth studied.

After a lecture and a recitation upon a particular tooth the student selects several of that denomination from a large number of promiscuous teeth and files at least one longitudinal and two transverse sections for the study of the pulp chambers and root canals, together with their relations to the external surfaces of the tooth. This general plan is carried out with each tooth of the human mouth. In order that tooth forms may be more perfectly impressed upon the mind during the study, a carving of a tooth of each class, as the incisors, cuspids, bicuspid and molars, is made by each student in bone or ivory representing the actual size and form of the tooth.

Students are also required to model teeth in clay, wax or plaster of Paris and prepare cavities in the same.

Operative Technics.

Professor H. Gale Atwater, Thos. A. Lynch, D. D. S.

This important department is given especial attention in our College, for we realize that the future success of the student, as well as the dentist, lies in first instructions.

It is our aim to make this department one of the strongest in the college. The object of this course is to afford a thorough technical training in operative procedures, preparatory to practical work in the Infirmary; to develop manipulative skill and to give the students an intimate knowledge of the tissues upon which they are to operate, of the physical qualities and adaptation of the materials to be used, and facility in the use of instruments by systematized practice upon teeth out of the mouth.

Special attention will be given to a study of pulp chambers and root canals, their number, size, form, and their relation to the outer surface of the teeth. Sections of the natural teeth will be prepared by each student in such a manner that these features will be clearly shown.

The student will construct models carrying tooth forms of natural teeth, upon which operations will be performed as in actual practice. This will consist in the preparation of cavities and a study of their classification and forms; the study of enamel and direction of cleavage on different parts of the crowns of the several teeth with special reference to the best form and finish of margins of cavities for filling; the cutting of dentine and the various methods employed in anchoring fillings; the removal of carious tissue; the management of pits and fissures and the general shaping of the cavity. Instruction will also be given in the application of the rubber dam, the methods employed in gaining space, the use of clamps, wedges, separators, etc.

In conjunction with practice in cavity preparation, there will be a study of filling materials and their manipulation; the various filling materials in use and their physical properties, indications for their use and the relative value of each.

This course is designed to thoroughly ground the student in the principle of operative dentistry and prepare him to intelligently prosecute the practical work of the infirmary.

Prosthetic Dentistry.

Prof. Eshelman, Dr. Bowman.

In this department the teaching embraces a systematic and well rounded course of didactic and practical instruction,

which is in every way designed to be in keeping with the requirements of this highly important department of dental education.

Prosthetic Technics occupy four hours per day, three days in the week, during the freshman year, with one lecture per week. The lectures accompany and cover the processes undertaken in the technic laboratory for each week, the student performing under competent demonstrators the operations and using the materials and appliances described in each lecture. The course will begin with taking impressions of the mouth for partial and full dentures, using all of the various materials and appliances employed for that purpose. The manipulation of plaster-of-paris, preparing impressions for securing models, model making, and separating from impressions, making trial plates, occluding and waxing teeth in position, investment of cases, description of vulcanizers and the process of vulcanization, scraping carving and polishing vulcanized cases, and methods of repairing vulcanite dentures, all of which will be illustrated by practical work performed by the student in the laboratory.

Making dies and counter dies for metal work, including preparation of model and making sand impressions, conforming metal plate to die, and swaging, trimming and finishing swaged plate, and occluding and waxing teeth in position, backing, investing and soldering; also attachment of teeth with vulcanite. This will include full and partial dentures.

Making lower dentures of cast metal, including special preparation of model, waxing up, investing, casting and finishing cases.

It is the intention that this course shall render the student familiar with the various materials and processes used in prosthetic dentistry, train his hand in the performance of the mechanical work, and fit him for the more complex technic work and the practical prosthetic cases to follow in the second year.

The instruction in the second year includes one lecture per week, advanced technics and practical cases for patients. It begins with a review of taking impressions and the pro-

cesses in vulcanite, the construction of gold plates, full and partial, and the working of aluminum in the making of cast plates and swaged plates, and the making of weighted dentures.

The Senior Year in Prosthetic Dentistry will be devoted more especially to infirmary practice, which will include the practical construction of the various plates of vulcanite, gold, aluminum, celluloid, continuous gum, etc., for patients. An advanced lecture course will also be given, occupying one hour per week, which will include new methods and appliances and reviews.

This College teaches the advantages of, and uses the anatomical articulator exclusively.

Orthodontia.

Professor Robinson, James D. McCoy, D. D. S.

This subject is taught during the Junior and Senior years.

During the Junior year the course consists of a series of lectures illustrated by numerous lantern slides. Beginning with normal occlusion the lectures take up the different classes of mal-occlusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retention followed by a course in model and appliance making.

In the Senior year the instruction is entirely clinical and is given at the individual chair in the infirmary.

Crown and Bridge Work.

Professor Ford, Assistant Professor Bowman.

Crown and bridge work pertains both to the operative and the prosthetic, and yet it occupies such an important field of dentistry that the College deemed it wise to make of it a separate department.

Students will receive a complete course in Crown technique, as well as lectures during their Freshman year.

Juniors will receive a complete course in Bridge technique during the first semester, and will do practical work in the Infirmary during the balance of the year.

Seniors will perform practical work in the Infirmary. The principles of construction of all of the various forms of crowns and bridges at present in use will be taught, also a study will be made of the stress applied by the muscles of mastication to the teeth, both singly and collectively, with its bearing upon crown and bridge construction, including the conditions under which bridges should or should not be used.

This department is especially well equipped with large drawings of all descriptions, illustrating this branch. The clinical facilities are excellent, requiring Porcelain and Gold Crowns and Bridges.

Porcelain.

Professor Eshelman, Dr. Goodman, Dr. Hopkins.

Porcelain, the coming work, is attracting more and more attention. It is the most artistic method of restoring teeth or parts of teeth. Cavities in the natural teeth can be filled with porcelain inlays, which cannot be detected.

Students of this school will be expected to attain a high degree of proficiency in the manipulation of porcelain. A high conception of the artistic possibilities is essential to progress. The hand cannot construct what the mind cannot conceive, and mental conception of artistic and beautiful operations is stimulated by observation and thorough teaching.

This college pays special attention to the instruction of students in this department and a complete technique course is given throughout the Junior year in uses of High and Low fusing Porcelain for Inlays, the construction of Porcelain Crowns and Bridges, Continuous Gum work and Gold Inlays. A special room is provided for this work with glass top benches, electricity for the furnaces and gas and compressed air for the low fusing bodies. The College is equipped with Townsend, Hammond and Custer electric furnaces and 15 Jenkins gas furnaces and new electric furnaces for the teaching of the Taggart system of Gold Inlays. Students are taught how to construct inlays by the use of Gold and Platinum matrices, the different blending of colors, and also a complete course of lectures is given covering the entire subject.

By the use of the Townsend Forms we are able to give the students a great deal more technical instructions in Porcelain, Crown and Bridge work, than they ordinarily receive. One is not only taught how to use the facing, in connection with the frame work, but how to carve the entire crown, which is more artistic and stronger, not being divided by metal pins. The Seniors will do practical work in the Infirmary. Our clinic is from the class of people who call for the very best and latest class of operations, and each student is required to construct Gold and Porcelain Inlays and Porcelain Crowns.

Physics and Chemistry.

Professor G. S. Beane, Dr. Jones.

In this department instruction is given by lecture, text and laboratory exercises. During the Freshman year the subject of Physics and General Chemistry is taken up. Beginning with the properties of matter, such as elasticity, hardness, expansion, malleability, ductility, specific gravity, specific heat, conduction, etc., the student is prepared to study intelligently the subjects of Dental Metallurgy and General Chemistry. Electricity in its applications to Physiology, Metallurgy and Therapeutics is considered in more detail.

In General Chemistry a detailed study along modern lines is made of the properties of the elements and their more important compounds. The student receives one lecture and two laboratory periods of two hours each per week. During the Junior year practical instruction is given in Qualitative Analysis. Those metals of importance to the dentist are studied with reference to their reactions, separation and identification. The acids are similarly studied.

The second semester is devoted largely to Physiological Chemistry. Special attention is given to the chemistry of the mouth, stomach and intestinal tract.

Metallurgy.

Professor Beane, Dr. Jones.

The course consists of lectures and practical laboratory work one hour each week during the second semester. A careful study is made of the history, structure and properties

of the materials used by the dentist. Each student will be required to conduct experiments in the laboratory as well as to make experiments in new alloys and compounds. Special attention is given to the analysis and compounding of amalgam alloys.

Surgery and Anesthesia.

Professor Lockwood, David D. Thornton, M. D.

The importance of this subject to the dental practitioner cannot be overestimated.

A dentist is recognized as an oral specialist. While he may not desire to undertake surgical operations, yet a lack of knowledge upon this subject will reflect upon his ability as a dentist in general.

The didactic work will be put to practice in the surgical clinic. The student will be called upon to assist in the performance of operations and care of patients during the period of recovery. The use of both local and general anaesthetics will be considered setting forth their use, as well as the conditions contra-indicating the employment of general anaesthesia.

Particular attention will be devoted to surgical diseases and injuries of the face, mouth, jaws and associate parts.

Professional Ethics and Hygiene.

Professor J. D. Moody.

Prof. Moody will deliver a course of lectures on these very important subjects. The personal and ethical conduct of the student before and after his graduation have quite as much to do in determining his standing and success in the community, as do his knowledge and technical skill.

Attendance at the society meetings is required.

Dental Pathology, Materia Medica and Therapeutics.

Professor W. C. Smith.

The instruction in this branch will consist of two lectures each week to the Junior and Senior students embracing a study of all pathological conditions of interest to the dental practitioner, together with a general application of the therapeutic agents indicated in the treatment of such conditions.

General Materia Medica and Therapeutics.

Professor T. C. Myers.

Professor Myers will give one lecture a week to the Junior and Senior classes.

A study of definitions, abbreviations and terminology used, the nature of disease, the source of drugs in nature, preparations made from crude drugs, methods of administering medicines; agencies that modify their action; the art of prescribing; general classification of drugs; their physical, chemical and poisonous properties, dosage and antidotes, and therapeutic application.

Special attention is given to those drugs that are most valuable in the practice of dentistry.

Dental Jurisprudence.

Eugene Overton, Esq.

The lectures on Jurisprudence include qualification and duties of expert witnesses, the importance of dental records, etc., as a means of identification, the limitations of dental practice, the qualifications required, and the liabilities incurred by those who administer anaesthetics, the penalties that may be suffered, and the defense to be made in case of real or supposed malpractice, and the liability in case of infection from instruments; the requirements of the California law and the laws of other states respecting the practice of dentistry, the steps necessary to become legal practitioners, the duties and liabilities of dentists with reference to the law, etc. This course will be followed by an examination at the end of the first semester.

Extraction and Anaesthetics.

Dr. A. A. Shaw.

This course embraces a series of lectures upon the principles and practices of extracting together with the use of the various and general anaesthetics. With a well equipped Extracting room and abundant clinical material, the student is afforded ample opportunity of becoming skilled in this work. This course will be given in the Junior and Senior year.

Electricity.

This course will consist of lectures on general electricity, and electric therapeutics, and also will be of great value to students in teaching them how to select and keep their electric appliances in proper condition.

INFIRMARY.

The clinical department has for the past five years had more material than the students could well use, and we have had a number of advanced standing students come to us on account of the great advantage to them of a large clinic, for no amount of scientific knowledge can compensate for lack of skill in practice. The College Infirmary, therefore, affords the student the best possible means of acquiring skill by actual practice upon patients.

The student is introduced into the Infirmary after the Christmas holidays of the Junior year, and continues in it until after examinations for graduation. He is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators who are always at hand to offer advice and assistance.

It is intended that this Infirmary practice shall be as near like an actual dental practice as it is possible to make it. Special effort is made to develop those qualities that will enable the graduate to obtain and hold a practice.

In this great clinic, embracing hundreds of patients each year, students have an opportunity to see and to study a great variety of cases. Irregularities and deformities of the teeth and jaws are studied and corrected. An observing student is able to see more of practical dentistry and more of the pathological conditions of the teeth, irregularities, deformities, and cases for artificial replacement, etc., in this clinic than he would observe in many years of ordinary private practice.

THE COLLEGE OF LAW

OFFICERS.

Frank M. Porter, A. B., LL. B.
Dean.

Gavin W. Craig, LL. B.
Secretary.

BOARD OF CONTROL.

George F. Bovard, A.M., D.D.

George I. Cochran	Conservative Life Bldg.
Hartley Shaw, A.M.	District Atty's. Office
A. J. Wallace	Homer Laughlin Bldg.
Nathan Newby, LL. B.	Wilcox Block
T. W. Robinson, A.M.	Law Library Court House
Frank M. Porter, A.B., LL. B.	American National Bank

The college of Law of the University of Southern California is under the immediate supervision and control of the Board of Trustees of the University. It is managed by a Dean and a Secretary and a Board of Control, all appointed by the University Board of Trustees.

The college of Law is located in the Rindge Building, on the corner of Broadway and Third Streets, in the city of Los Angeles. This location is convenient to the Federal Courts, and the State Superior, Appellate and Supreme Courts. The rooms are well fitted up for the use of the students. They are heated by gas and lighted by electricity.

This Law School is a member of the Association of American Law Schools, and maintains strictly the standards required by that association.

Object of the College.

The purpose of this college is to impart a sound and thorough legal education and to qualify students for admission to

practice in all the courts, not only of this, but of any other State, and in the Federal Courts.

All students entering the College of Law are entitled to four hours of instruction per week in the College of Liberal Arts without additional cost.

CONDITIONS OF ADMISSION.

Admission to Freshman Class.

Applicants for admission to the Freshman year must be at least 18 years of age; must furnish two certificates of good moral character; and must pass satisfactory examinations as hereinafter prescribed, unless otherwise qualified to be admitted.

Graduates of high schools maintaining a four years course of study or other educational institutions whose course is equivalent to such a high school course are admitted without examination. Certificates of graduation should be presented.

Anyone may be admitted as a special student who is able to satisfy the Dean and Secretary that he has sufficient education to study law with profit to himself. A special student may make up his educational deficiencies while attending Law School and is then entitled to become a regular student, and have the work which he has done as a special student credited to his regular course.

To Advanced Standing.

Applicants for admission to the Junior or Senior classes must present certificates of the completion by them of work equivalent to that for which they seek to be credited. Certificates will be accepted when issued by other colleges of law whose requirements are as high and whose course is as extensive as that here given. Applicants for advanced standing not having such certificates must pass examination in the subjects for which they seek credit, but any student who desires to take such an examination must first secure permission to do so from the Dean and Secretary.

Such examinations are given only at the beginning of a semester. A charge of two dollars is made for each special examination.

The School reserves the right to expell any student whenever the Board of Control deems it necessary for the welfare of the Law School, and to suspend any student, or use other methods of discipline, whenever deemed advisable by the Dean and Secretary.

COURSE OF INSTRUCTION.

Attention is called to the fact that courses are given in Briefing and the Use of Books. In addition to the briefs required in Moot Court work the members of the Faculty assign subjects for briefs in connection with their respective classes.

The course of study covers a period of three years. The degree of LL. B., is conferred by the University of Southern California on all graduates of this department.

The method of instruction is a combination of the textbook, case and lecture systems, with practical experience in briefing and pleading.

CURRICULUM.

In addition to the following, special lectures are provided during the year upon subjects which though not really required in a legal course, are yet of much value to those desiring a well-rounded knowledge of the law.

Unless otherwise specified the method of instruction is by textbook and selected cases.

The duration of each period specified below is one and one-half hours.

FIRST YEAR.

First Semester.

Contracts	Claire S. Tappaan
Two Periods.	
Criminal Law	Frank R. Willis
Two Periods.	
Elementary Law and Blackstone	Gavin W. Craig
Two Periods.	
Torts	John R. Berryman
Two Periods.	
Bailments	Frank M. Porter
Two Periods.	
Use of Books	T. W. Robinson
Lectures, One Period.	

Second Semester.

Contracts	Claire S. Tappaan
One Period.	
Criminal Procedure	Frank R. Willis
Penal Code and Selected Cases, One Period.	
Damages	George H. Woodruff
One Period.	
Torts	John R. Berryman
Two Periods.	
Domestic Relations	James W. Taggart
Two Periods.	
Elementary Law and Blackstone	Gavin W. Craig
Two Periods.	
Personal Property	Frank M. Porter
One Period.	
Negligence	Wm. P. James
One Period.	
Agency	Lewis A. Groff
One Period.	

SECOND YEAR.

First Semester.

Wills	Curtis D. Wilbur
One Period.	
Common Law Pleading	H. C. Dillon
Two Periods.	
Private Corporations	D. K. Trask
One Period.	
Real Property	Gavin W. Craig
Two Periods.	
Commercial Paper	Myron Westover
One Period.	
Equity Jurisprudence	H. C. Dillon
Two Periods.	
Constitutional Law	W. A. Cheney
Lectures, One Period.	
Moot Court.	
One Period.	

Second Semester.

Private Corporations	D. K. Trask
One Period.	
Wills	Curtis D. Wilbur
One Period.	
Equity Jurisprudence	H. C. Dillon
Two Periods.	

Real Property	Two Periods.	Gavin W. Craig
Commercial Paper	One Period.	Myron Westover
Partnership	One Period.	Wm. W. Phelps
Justice Court Practice		Albert Lee Stephens
Code of Civil Procedure of California and Lectures	One Period, Part of Semester.	
Patents		James R. Townsend

Lectures, One Period, Part of Semester.

Statutory Interpretation	One Period.	T. W. Robinson
Constitutional Law	One Period.	W. A. Cheney

Lectures and Selected Cases.

One Period.

Moot Court.

One Period.

THIRD YEAR.

First Semester.

Code Pleading	Two Periods.	James G. Scarborough
Real Property	Two Periods.	Gavin W. Craig
Evidence	Three Periods.	Frank M. Porter
Public Corporations	Two Periods.	Walter F. Haas
Equity Pleading (omitted 1906-1907)	One Period.	Frank C. Vaughn
Federal Jurisdiction and Procedure	One Period, Part of Semester.	Walter M. Rose

Moot Court.

One Period.

Second Semester.

Code Pleading		James G. Scarborough
Code of Civil Procedure and Text Books	Two Periods.	

Real Property	Two Periods.	Gavin W. Craig
Evidence	Three Periods.	Frank M. Porter
Mines	Part of Semester.	Lewis A. Groff
Water Rights	One Period.	Gavin W. Craig
Insurance Law	Eight Lectures.	Seward A. Simons
Bankruptcy	Five Lectures.	W. T. Craig
California Lien Law	Five Lectures.	Frank James
Appeals	Three Lectures.	J. W. Swanwick
Admiralty	Six Lectures.	E. W. Tuttle
Advocacy	Six Lectures.	Earl Rogers
Legal Ethics	Three Lectures.	John D. Pope
Moot Court.	One Period.	

Attendance at ninety per cent. of the lectures and recitations is required for promotion or graduation.

Examinations are given at the end of each semester. A grade of seventy-five per cent. on examinations and daily work, in each subject, is required for promotion or graduation.

Persons who are not studying for a degree may enter the College of Law at any time as special students and may pursue such studies as they desire. This provision is made especially for the aid of those seeking or holding positions of trust in banks and other business institutions.

POST-GRADUATE COURSE.

During the year 1908-1909 a Post-Graduate course of one year will be given. The degree of Master of Laws (LL. M.) will be conferred upon those who have previously received the degree of Bachelor of Laws (LL. B.) from any Law School maintaining a three-year undergraduate course, on completion of an approved course of graduate study equivalent to ten yearly periods.

The course will cover approximately the following subjects: International Law; Mining Law; Spanish and Mexican Land and Mining Law; Conflict of Laws; Extraordinary Legal Remedies; Trusts; Interstate Commerce; Logis; Taxation; Public Officers; Restraint of Trade; Political Science; Modern Civil Law; History of the Common Law; History of the Roman Law and Comparative Jurisprudence.

The instructors and lecturers in this course will be as follows: Hon. Wm. J. Hunsaker, Hon. George H. Smith; John R. Berryman; Willoughby Rodman; E. W. Camp; Warren E. Lloyd and others.

SUMMER COURSE.

During each summer classes are conducted in a limited number of subjects. During the summer of 1908 the subjects to be taught will be Elementary Law and Blackstone, Bailments and two of the Junior subjects, which cover less than two periods per week for the year in the regular course.

PUBLIC SPEAKING, VOICE BUILDING AND EXPRESSION.

A course in Public Speaking, Voice Building and Expression will be offered by Miss Beulah Wright, Dean of the College of Oratory, University of Southern California.

The course is designed to meet the needs of the students of the Department of Law. The work is of the most practical character.

It is the aim to teach a student to be simple and natural in his expression, and when occasion shall demand, powerful, but at all times to preserve his individuality. A great deal of stress is laid upon the development of the voice for purity, flexibility, and control.

Most of the work done in classes is of an extemporaneous nature, such as short talks on current public questions, argumentation and debate. Attention is also given to the study and delivery of great orations, as well as the preparation of original orations.

Students doing work in these classes may receive credit in the College of Oratory to apply upon either the Diploma Course or the Certificate Course. It is possible for a student to complete one of these courses during his three years work in the College of Law.

COURTS.

The Supreme Court of the State holds two sessions each year in Los Angeles, and the students have opportunity to hear carefully prepared arguments by some of the ablest lawyers of the country.

The United States Circuit and District Courts are held here, and opportunity for study of the Federal practice and procedure is thus offered, on both law and equity sides.

The Appellate Court for the Southern District of California holds its sessions in Los Angeles.

The Superior Court of Los Angeles County, consisting of nine departments, is in session the entire year.

Three city Police Courts and four Township Justice's Courts, in which students in the Middle and Senior years can get some actual practice before admission to the bar, are in session daily during the entire year.

ADMISSION TO THE BAR.

Graduates of the University of Southern California, College of Law are admitted to the bar upon motion and without examination.

LIBRARY.

Students are allowed the use of the Los Angeles County Law Library, consisting of fifteen thousand volumes, upon the same terms as members of the bar.

The College of Law has a good working library of its own, consisting of about 1600 reports, text books and digests.

MOOT COURTS.

Students of the Second and Third years are assigned not less than 2 cases during each semester, which they are required to conduct through the Superior Court, and one of which must be taken up on appeal through the Appellate or Supreme Courts. Controversies are arranged and assigned upon statements of facts for trial. All necessary pleadings are drawn, process is issued, and when all the issues of law have been disposed of cases are tried upon the issues of fact; this involves all of the incidents of a contested trial. Students of the First and Second years act as witnesses, clients and jurors. These

trials are presided over by a member of the bar and are conducted as nearly as possible in the same manner as trials in actual courts. Each student in the First and Second years must write at least three briefs which are examined and graded by the Faculty.

Students in the Second and Third years are required to attend seventy per cent. of the Moot Court sessions.

DEBATING CLUBS.

The Freshman Debating Club is under the supervision of the College and attendance at 70 per cent. of its meetings is compulsory on all regular students of the freshman class.

The Dean of the College of Oratory directs the work. There is also one voluntary club composed of members of the Junior and Senior years; the Lyceum, which is a club having a restricted membership.

EASTERN STUDENTS.

An increase in the number of Eastern students attending the University of Southern California is noted each year and expected. An opportunity is afforded to spend a few years in Southern California and at the same time fit oneself for the practice of law. Those intending to practice in common-law states should notice that an entire semester is devoted to the study of common-law pleading. It is the aim to fit the graduates of this college to practice law in any state.

FEES AND EXPENSES.

An entrance fee of \$10.00 is required upon registering.

Tuition fees are \$75.00 per year, if paid in advance at the beginning of the college year, or \$42.50 per semester.

Fees for Classes in Expression.

Fees for tuition in Public Speaking, Voice Building and Expression are \$10 per semester, or \$17.50 per year in class. These classes occupy two periods of 45 minutes each per week.

The tuition charged for private lessons is as follows:

One lesson per week (45 minutes)	. . .	\$25.00
Ten lessons (45 minutes)	. . .	15.00
Single lessons (45 minutes)	. . .	2.00

ROOMS AND BOARD.

Students on arriving at Los Angeles can obtain information in regard to rooms and board by calling at the office of the Secretary of the Law College.

Although the School cannot agree to secure students positions in offices, yet it will assist those who desire to make such arrangements, and it may be here stated that ordinarily no serious difficulty is experienced in finding such opportunities.

Those desiring further information relative to the College of Law may obtain it by writing for its special Announcement.

Address all communications:

University of Southern California
College of Law.

Rindge Building, Los Angeles, Cal.

Frank M. Porter, Dean.

Gavin W. Craig, Secretary.

THE COLLEGE OF MUSIC

GENERAL STATEMENT.

The musical department of the University was founded twenty-three years ago. By a faithful adherence to high standards its faculty have brought it to a well recognized position in higher musical education. Its diplomas have all the prestige which comes from its long establishment and the name of the University. Its graduates and former students are taking prominent places in the musical world all over the Southwest, both as teachers and performers.

The College of Music offers extensive courses in nearly all departments of musical instruction, and is designed to fit students for the profession, as composers, theorists, artists and teachers. It also provides for the study of music as a part of general culture or as an accomplishment.

Its unusually strong faculty, including some of the most widely known teachers in the Southwest, and its thorough courses of instruction, beside its location in connection with the University make it an ideal school. Its aim is to make well-grounded musicians and not mere performers.

The general spirit of earnest study characteristic of an institution of higher learning such as the University has been found to react very beneficially on the student of music, who, too often, is inclined to superficiality. Breadth of character and liberal ideas are more surely attained in the atmosphere of general education than in that of specialized study.

ADVANTAGE OF COLLEGE STUDY.

Among the many points of superiority of college study in music may be mentioned the regular attendance at lessons required, the musical atmosphere created by the recitals, lectures and class work, the opportunity given for obtaining in class work at very slight expense, the very best of training in the theoretical studies, such as harmony, theory and his-

tory of music—studies which are essential to the well-grounded musician and which the private teacher can not touch upon in the lesson hour.

EQUIPMENT.

The College of Music occupies the South wing of the main building. It is 108 feet long by 44 feet wide, substantially constructed of brick with plastered exterior. The interior is thoroughly modern and artistic in finish and furnishings. It contains a commodious and elegant reception hall, also cloak room and lavatories, lecture hall and recital hall, and a large number of exceptionally large and attractive studios. Nothing superior to it in the way of a music school home can be found in this section.

The school is equipped with a full complement of teaching and practice pianos. The pipe-organ in the college chapel is used by students for practice. It is blown by electric motor and the charge for rental is no more than blower's fees would be in an organ blown by hand.

RECITALS.

A feature of the greatest value to the students is the weekly pupils' recitals, at which the pupils are expected to play or sing before the whole school, as their teachers may direct. Public performance is an art in itself, and can only be mastered by many public appearances. Pupils who acquit themselves creditably at the recitals before the music students only, are allowed to appear at the public recitals of the school. Pupils thus have the opportunity to hear and become familiar with the music of the other departments. Recitals are also given by the faculty from time to time and also a regular course of lectures and lecture recitals on musical history and other topics. Music students have free admission to all public exercises of the school.

DIPLOMAS.

The diplomas of the University are given at the completion of the Normal and Collegiate courses.

The requirements for graduation in any department are the completion of the prescribed course in that department,

at least one year's work in which must be done in this school; the completion of the Normal course of three terms in harmony, one term in musical theory and two terms in musical history, and the public performance during the senior year of an entire program under the direction of the department teacher.

Organ students will also be required to take the term of "keyboard harmony." Vocal students are required to take one year of piano work.

TEACHERS' CERTIFICATES.

Teachers' Certificates will be given to those who have completed the work of the Normal course, but who for any reason are unable to give the public recital required for graduation.

THE COURSE OF STUDY.

The educational system of the school is divided into three general departments: the Preparatory, the Normal, and the Collegiate.

The Preparatory department is open to all persons above seven years of age, with or without any previous knowledge of music. It is intended to prepare for the Normal, and also to meet the wants of those who have not the time or the inclination to enter upon an extended course but who desire the best possible instruction during the time they may devote to this study.

The Normal department is designed for students preparing for the profession as teachers, and for amateurs desirous of obtaining a thorough training in the art and science of music.

The Collegiate department is open to all who have taken the Normal.

THE DUNNING SYSTEM.

The Dunning System of instruction for beginners is now in use in the school, with very gratifying results.

The system is a simple, entertaining, yet thoroughly practical method of instruction which develops the child musically and mentally. As he advances, he becomes an intelligent musician, which means much more than to say he is a performer on an instrument. Each topic is anticipated and pre-

sented in such a manner as to make it comparatively easy. The first work is done most effectively in class, insuring interest, regularity and spontaneity.

FREQUENCY OF LESSONS.

Too much emphasis cannot be laid upon the importance of frequent lessons. The fact that a pupil's practice time is limited to two or even one hour a day does not mean that one lesson a week is sufficient to insure correct progress. A pupil need not practice any more for two lessons than for one a week.

At every piano lesson, for example, must be considered matters of technic, which includes position, conditions and action of fingers, hands, arms and body; correct reading of notes; time; fingering; musical signs; pedal; expression; musical form; phrasing; and other things which the special needs of each pupil may suggest. To carefully criticize the pupil's past work and lay out the future in all these details so that past errors shall not be repeated or new ones be made, is the part of the teacher; in other words, to guide and direct the pupil's practice. To do this adequately in one lesson a week is well nigh impossible for the teacher, and to remember the teacher's criticism and suggestions for so long a time, still more impossible for the pupil. No matter how careful pupils mean to be, errors will creep into their work, faulty practice will be done before the week is over, and work will have to be undone and done again. This means delayed progress and, from a financial point of view, increased expense. This is especially true with children just commencing study, who should, if possible, see the teacher three times a week.

Our experience, in common with that of all conscientious teachers, leads us to believe that taking but one lesson each week is the greatest mistake a pupil can make.

COLLEGE CREDITS.

Credits will be given in the College of Liberal Arts for musical work as follows:—Two semester hours per term will be credited to students making passing grade in any one of the

theoretical studies or advanced vocal or instrumental work, the total credits in any case not to exceed eight.

BUSINESS REGULATIONS.

Students entering after the opening of the term will register for the remaining portion, and will be charged pro rata. The work of the term begins on the date advertised, and students who enter late will find themselves behind their classes.

Students taking less than one-half term in class work will be charged for the half term; those taking more than a half term will be charged for the full term.

All students are required to attend the regular recitals of the school and to take part in them whenever so assigned.

No deduction will be made for occasional absence from lessons. Lessons missed will be made up to pupils, if notice of the intended absence is given three days in advance.

Lessons falling on national holidays are not lost to students.

Sheet music will be furnished students at teachers' rates, if paid for on delivery.

A discount of fifteen per cent. is allowed to the children of Methodist ministers. This discount applies to vocal and instrumental work only.

TUITION FEES, by Semester, 19 Weeks.

Payment in Advance for each month's tuition will be expected by the 7th of the month or on enrollment.

Settle all accounts at the office only, making checks payable to the Dean.

Voice, Mr. Miller, two lessons per week, 30 minutes....	\$76.00
Voice, Mr. Miller, one lesson per week, 30 minutes....	47.50
Voice, Mrs. Robbins, one lesson per week, 40 minutes..	47.50
Voice, Mrs. Robbins, two lessons per week, 40 minutes	76.00
Voice, Mrs. Robbins, daily lessons, 40 minutes..	\$30 per Mth.
Piano or Pipe Organ, Mr. Skeele, two lessons per week, 45 minutes.....	\$95.00
Piano or Pipe Organ, Mr. Skeele, one lesson per week, 45 minutes.....	47.50
Piano, Mr. Skeele, two lessons per week, 30 minutes	76.00
Piano, Mr. Skeele, one lesson per week, 30 minutes....	38.00

Piano, Mrs. Brimhall or Miss Trowbridge, two lessons per week, 45 minutes.....	57.00
Piano, Mrs. Brimhall, or Miss Trowbridge, one lesson.. per week, 45 minutes.....	28.50
Piano, Miss Arnett, two lessons per week, 45 minutes	47.50
Piano, Miss Arnett, one lesson per week, 45 minutes..	23.75
Dunning System, Miss Patton, in classes 4 to 6, 1 hour	28.50
Dunning System, Miss Patton, private lessons, 30 min- utes	19.00
Violin, Mr. Pemberton, two lessons per week, one hour	76.00
Violin, Mr. Pemberton, one lesson per week, one hour	38.00
Violin, Mr. Seiling, 2 lessons per week, 45 minutes....	95.00
Violin, Mr. Seiling, 1 lesson per week, 45 minutes....	47.50
Violin, Mr. Seiling, two lessons per week, 35 minutes..	76.00
Violin, Mr. Seiling, one lesson per week, 35 minutes..	38.00
Harmony and Theory, Mr. Pemberton, private lessons, one per week.....	28.50
Harmony and Theory, class lessons, two per week....	15.00
Rental of Pipe Organ, one hour each day, including blowing, per term.....	17.10
Rental of Pipe Organ, two hours each day, per term	34.20
Rental of Piano, one hour each day, per term.....	4.00
For further particulars, address, W. F. Skeelee, Dean, Wesley Avenue and West 35th Place; Residence 'phone C9368. Tele- phone Home Ex. 3444.	

THE COLLEGE OF ORATORY

The system used in the College of Oratory is based upon the Cumnock Method, founded by Robert McLean Cumnock, L.H.D., Director of School of Oratory, Northwestern University, Evanston, Illinois.

The aims of the College are:

To develop the inner man.

To prepare the body to express the inner man.

The method is neither imitative nor mechanical, but is founded upon psychological principles.

The pupil acquires the power to interpret for himself and to express emotions through his own individuality. The result is a naturalness and simplicity of manner together with personal power.

A great deal of attention is paid to the Department of Public Speaking. Ministers, theological students, or any who may have access to address audiences, will find this work of great value.

COURSES OF STUDY.

(Class Work.)

Course 1. Fundamental principles of expression, English phonation, enunciation, interpretation of selections from Cumnock's Choice Readings. **Two hours, first semester.**

Course 2. Voice building, breathing, tone placing, bodily expression, interpretation of selections from Cumnock's Choice Readings. **Two hours, second semester.**

Course 3. Interpretation from modern writers: Kipling, Barrie, Van Dyke, Riley, Kate Douglas Wiggin, Maclaren, Dunbar and others. **Two hours, either semester.**

Course 4. A study of Lyric Poems: Wordsworth, Browning, Tennyson, Burns, Lanier, Arnold, Dickens, and others. **Two hours, either semester.**

Course 5. Voice, Relaxation, Concentration, Breathing, Tone Placing, Rhythm, Phrasing. **Two hours, one semester.**

Course 6. Debate and Extemporaneous speaking. Two hours, either semester.

Course 7. Oratory, Bible and Hymn Reading. Sears' History of Oratory and Modern Eloquence. Curry's Vocal and Literary Interpretation of the Bible. Two hours, either semester.

Course 8. Shakespeare: Julius Caesar, Macbeth, or Hamlet; As You Like It; Two Gentlemen of Verona, or Much Ado About Nothing. Two hours, either semester.

Course 9. Artistic Anatomy. A summary of Anatomy intended for the study of forms, attitudes and movements. Two hours, first semester.

Course 10. Repertoire, abridgment of books and classics for public presentation arrangement of programs, impersonation. Advanced students only, two hours, second semester.

Assembly. All private pupils meet with the Dean to pursue a course in the Art of Expression. Two hours, both semesters.

Shakespeare Club. Interpretation and presentation of the drama. A study of dramatic law. Two hours, both semesters.

DIPLOMA COURSE.

The work required in this course consists of: Three years of private work, two lessons per week; the ten courses; Assembly; Shakespeare Club; one years advanced Physical Training in addition to the two years required Gymnasium work; College work sufficient to enroll a student as a Junior in the College of Liberal Arts.

Students enrolled for the Diploma Course, will be granted twelve semester hours in English or History, in the College of Liberal Arts, not more than six hours to be taken in one year.

A certificate will be granted to students who complete the following courses: Two years of private work, two lessons per week. Courses 1, 2, 3, 5, 9 and 10, and two of the remaining four courses to be elected; Assembly; Shakespeare Club, and two years of Gymnasium work.

Students wishing to complete this course of study must have one year of History, and two years of English.

RECITALS.

Pupil's recitals are given every two weeks, on Wednesday at 3:50 p.m., in the Athena Literary Hall. The participation in these recitals by students is required that the student may have practice and gain confidence in appearing before audiences. All students enrolled in the school are expected to be present at each recital. Admission to friends is by card.

Faculty recitals are given each semester by the instructors in the school, or by artists from the outside.

PHYSICAL EXPRESSION.

"Is not that the best education which gives to the mind and to the body all the force, all the beauty and all the perfection of which they are capable?"—Plato.

Special classes in Physical Culture are conducted for the Oratory students. The laws which underlie Physical Expression are here studied and such exercises are given as will best develop the pupil toward health, expressiveness of movement and grace. It is the aim of this work to bring the body under perfect control of the will, and to teach the principles of gesture in such a manner as to give spontaneity and freedom from affectation.

A Normal Course in Physical Education has been arranged to meet the needs of those desiring to teach this work. The course includes Hygiene, Physiology, Anatomy, Voice Building, Gymnastics, Athletics, Physical Culture and Practical Teaching.

CHILDREN'S DEPARTMENT.

This course is planned for children under twelve years of age. Classes are organized in expression, where the children are trained in common reading and in the delivery of recitation.

Classes are also formed in Physical Culture, where children are taught correct breathing, standing, walking, sitting, and ease and lightness of movement. Exercises are given to correct individual faults of body, such as round shoulders and hollow chests.

TUITION.

(Fees are payable to the Dean in Advance.)

Instruction per semester (18 weeks).

Full diploma course, including two private lessons per week, Gymnasium, Assembly, Shakespeare Club, one or more classes in Expression, English and History..\$75.00
(A discount of ten per cent. will be granted on the years tuition when paid in advance.)

Full certificate course including two private lessons per week, Gymnasium, Assembly, Shakespeare Club,
one or more classes in Expression . . . \$60.00
Two Private lessons per week (30 minutes) . . . 50.00
One Private lesson per week (30 minutes) . . . 25.00
A course of ten lessons (30 minutes) . . . 15.00
One private lesson per week (45 minutes) . . . 32.50
A course of ten lessons (45 minutes) . . . 18.50
Single lessons (45 minutes) . . . 2.50
Single lessons (30 minutes) . . . 1.50 to 2.00
Class, two periods per week (55 minutes) . . . 10.00
Shakespeare Club, two periods per week (55 minutes) 10.00
Coaching plays (60 minutes) . . . 1.50
Assembly, two periods per week (55 minutes) . . . 15.00

PHYSICAL EDUCATION.

Full Normal Course . . . \$35.00
One private lesson per week (30 minutes) . . . 20.00

CHILDREN'S DEPARTMENT.

Two private lessons per week, Expression (30 minutes) \$35.00
One private lesson per week, Expression (30 minutes) 20.00
Class Expression, Course of 15 lessons . . . 8.00
Class Physical Culture, Course of 15 lesson . . . 5.00

A discount of ten per cent. on all private work will be given to Ministers.

The diploma fee is \$10.00.

The certificate fee is \$5.00.

A student in the College of Liberal Arts may elect a maximum of sixteen hours in the College of Oratory.

University of Southern California College of Oratory.

Thirty-fifth Street and Wesley Avenue.

Miss Beulah Wright, Dean.

THE COLLEGE OF FINE ARTS

The College of Fine Arts, which has now become the largest, best equipped and most efficient art school in the West offers several courses adapted to the varying needs of specialists and the changing industrial conditions of our times.

The full three years course covers all the branches usually taught in art schools and fits the student for the position of supervisor of drawing in public or private schools or the practice of art, professionally.

Latterly the application of art to all lines of industrial effort has opened up many new avenues of profitable employment to the artist and many students are taking up special lines of work in order to meet this demand.

Illustrating is one of the most attractive branches of art and one of the most profitable to the expert, but there are already too many untaught and incompetent illustrators in the market. The course in illustrating is thorough and complete, embracing the technique of charcoal, pencil, pen and brush work, anatomy, the principles of design and composition.

Architectural drawing is also a readily available mode of industrial art much in demand at present, especially in the branch of perspective. This course embraces mechanical drawing, building construction, perspective, wash drawing and water color.

Designing is a wide open field, applied in modern industrial methods to almost every article of manufacture. The course in design covers mechanical drawing, composition, the history and principles of ornament, color harmony, and the constructive requirements of fabrics, glass work, fictile products, metal work, etc.

Pottery has recently come into great vogue as a mode of art expression and it seems a revelation to the public that ceramic work is within the reach of the ordinary student. The truth is that pottery is comparatively easy in its simpler

forms and even in some of its more complicated forms is attainable by ordinary industry and intelligence. This course includes clay modeling, the potter's wheel, moulding, glazing, firing, underglaze painting and the principles of color harmony and design.

There are certain advantages in a large school like this which are usually overlooked but which nevertheless are of enormous value to the student. Among these are the stimulus created by the presence of the various lines of art activity going on at the same time and the enthusiasm produced by the continual production of practical, successful work by advanced students. This is the much desired art atmosphere, an education in itself, an asset of the large and successful school which no other environment can supply.

Owing to its superb location and perfect adaptation to its purpose, this school offers more advantages in the way of convenience, comfort, salubrity, outlook and abundance of painting material than any other art school west of Cincinnati.

The college buildings overlook the most beautiful section of the famous Arroyo Seco and the wide expanse of the San Gabriel Valley. From its corridors may be seen the whole range of the Sierra Madre mountains; vistas of live oak, pepper, and eucalyptus trees lie in every direction; within a stone's throw a perennial stream meanders through groves of sycamore and water beech.

The school contains a large lecture room and exhibition gallery, six large, light, dry well-ventilated studios, store rooms, cloak rooms, wash room, lockers, and every necessary convenience. In short, it is a thoroughly equipped modern art school.

The full college course includes Mechanical Drawing, Projection, Perspective, Free-hand Drawing, Painting in Water Color and Oil, Art History, Mythology, Sacred History and Anatomy. The Course covers three full years' work and entitles the student to a diploma on passing the required examination.

Diplomas and other honors are conferred by the University of Southern California, with which institution the College of Fine Arts is affiliated.

Special branches may be taken separately from the course, and certificates of proficiency will be granted on passing the required examinations.

There are classes for men and women in Drawing, Clay Modelling, Painting in Oil and Water Color, Illustrating for books and newspapers, Designing, Architecture, Pottery, etc.

At the College of Liberal Arts in the University building, classes are conducted under the same instructors in Mechanical Drawing, and Free-hand Drawing.

Credits for work done in other schools or colleges will be allowed when satisfactory proficiency is shown.

Frequent competitions are open to advanced students, entitling the winners to certain school privileges.

A Summer School is maintained during the vacation month for the convenience of teachers and others who cannot attend the regular sessions.

Rooms with or without board, may be obtained in the neighborhood at very moderate rates.

Admission of Students.

No examination is required for entering the primary classes in any branch.

For the advanced class an example of work must be submitted showing the student's fitness.

Students may enter the school at any time during the school year.

TERMS.

6 Lessons per week,	\$12.00 per month
5 Lessons per week,	11.00 per month
3 Lessons per week,	6.50 per month
1 Lesson per week,	3.50 per month
Single Lessons, each	\$1.00
Private Lessons, each	2.00
Full Collegiate Year	85.00
Per Semester	45.00
To post graduates, per year .	25.00
Graduation fee	5.00

No charge is made for models, lockers, boards, easels, etc. Materials are furnished to students at wholesale rates.

All fees payable in advance.

For further information address Dean Wm. L. Judson, 201 S. Ave. 66, Los Angeles, Cal.

THE COLLEGE OF PHARMACY

OFFICERS.

Dean	Walter T. Taylor
Treasurer	A. B. Ulrey
Registrar	Laird J. Stabler
Secretary	C. W. Hill

ADVISORY BOARD.

Walter Lindley, M.D., LL.D.,	Granville McGowan, M.D.,
L. N. Brunswig, L. D. Sale, F. M. Boswell,	
Frank Moore,	F. F. Bothfell.

CALENDAR, 1908-1909.

- Oct. 19, Monday—Regular term begins at the College Building.
Dec. 18, Friday—Christmas holidays begin.
Jan. 4, Monday—Lectures resumed.
May 7, Friday—Term closes.

The demands of pharmaceutical progress today require representatives who possess technical knowledge. To supply this demand, the College of Pharmacy is affiliated with the University of Southern California, its aim and purpose being to create a means for higher pharmaceutical education, and supply a broader foundation for the student's professional career by providing systematic instruction and special training in those subjects requisite for the successful practice of pharmacy.

Course of Instruction.

The system of instruction will include lectures, demonstrations, recitations, written and oral examinations, as well as individual instruction in operative and dispensing pharmacy, organic, inorganic, and analytical chemistry, botany, materia medica, pharmacognosy, toxicology, and microscopy, with special lectures upon business topics especially suited to the retail pharmacist.

Sessions.

The session will open October 21, 1907, and will continue May 3, 1908, and the schedule will be conducted during the day and evening so as to allow students the privilege of retaining their positions as clerks in the stores of Los Angeles and neighboring towns while attending college.

College Building.

The session will be held at the University of Southern California, located at Thirty-fifth Street and Wesley Avenue.

COURSE OF INSTRUCTION.

Pharmacy.

Prof. W. T. Taylor. Mr. Arthur Maas.

JUNIOR YEAR—Six hours per week.

The lectures of the Junior year will treat of the history of the Pharmacopoeia. Weights and measures, percentage solution and the arithmetic of dispensing and manufacturing pharmacy, owing to their importance, will be considered at length. Specific gravity and specific volume will be taught by demonstrations, using the various apparatus for the purpose, accompanied by a thorough explanation of each. Heat will next be considered, then the operations wherein heat is used; exaporation, distillation, sublimation, desiccation, exsiccation, etc. This will be followed by a discussion of the preservation of crude drugs and their preparation for manufacturing purposes; then the operations of decantation, filtration, clarification, maceration, infusion, decoction and percolation.

Alternating with the subject of operative pharmacy, the galenical preparations will be critically studied; while they will be discussed from the standpoint of their several classifications, such individual preparations as merit it will be given special consideration, the object being to familiarize the student with the reasons for each step taken in the manufacture of the different preparations.

SENIOR YEAR—Four hours per week.

The lectures of the Senior year will embrace the study of the inorganic and organic acids and the salts of the differ-

ent metallic bases; the commercial methods of preparation will be touched upon, and a special effort will be made to teach the student to prepare them extemporaneously when necessity arises therefor. In addition to the official compounds, those unofficial ones which through frequency of use merit it, will likewise be treated of.

This will be followed by a study of alkaloids and the neutral principles of vegetable drugs.

Extemporaneous pharmacy will then be taken up and will include a thorough discussion of dispensing. Facsimiles of physicians' prescriptions will, by means of the stereopticon, be thrown upon a screen, and the class drilled in reading those that are legible with difficulty. Chemical and pharmaceutical incompatibilities will be taught, and best methods discussed for overcoming same.

PHARMACAL JURISPRUDENCE.

Mr. Edward G. Kuster

The course consists of lectures to the Senior Class in which the rights and responsibilities of pharmacists and the laws affecting the same are taken up and fully discussed. The Constitution of the United States and State Constitutions are explained, then Federal and State law, international law, etc. The statutes regulating the practice of Pharmacy, with their constitutionality, are discussed. The legal limits of Pharmacy, right to practice, legal qualifications of pharmacist, etc., are taken up, together with the liability of pharmacist and manufacturing pharmacist.

MATERIA MEDICA—PHARMACOGNOSY.

Prof. C. W. Hill.

This course consists of one lecture or recitation and one laboratory exercise of two hours per week, and will present the subject in as broad, yet concise, form as possible. It will be confined to that instruction which will be of greatest benefit to the student when the course is completed, giving larger consideration to those drugs of animal and vegetable origin which in commerce are most frequently met with.

The subjects will treat first of those drugs of animal derivation, and will thence proceed to give consideration to those drugs of Phanerogamic and Cryptogamic origin. The lessons and lectures in *Materia Medica* will be based upon the pharmacopoeia; at the same time due observation will be given to those remedies which are unofficial. The order in which these agents will be taken up will be based upon a commercial classification, studying first the roots, which will be sub-classified according to analogous properties; thence continuing with rhizomes, barks, flowers, fruits, seeds, etc. A prominent feature of the course will be found in the concurrent lecture system of instruction.

Instruction will be given two hours per week in this branch of studies, by lectures; as well as by recitations, quizzes, home study and examination of drugs—all these will be given with the view of enabling the student the more readily and thoroughly to identify the drug and give judgment as to quality.

The subject will be presented as follows. 1st—Drugs of animal origin. 2nd—Vegetable drugs.

Treating first the Cryptogams and next the Phanerogams.

Each drug will be considered as to its nature, origin, commercial and botanical relation, and microscopical structure, active principles, therapeutic action, doses.

Adulterations, admixtures and substitutions will be thoroughly discussed.

CHEMISTRY.

Prof. Laird J. Stabler, M.S., Ph. C.

JUNIOR YEAR—Four hours per week.

The course consists of one lecture or recitation and one laboratory exercise of two hours per week. The essential points of chemistry needed by a pharmacist are covered very thoroughly. A study is made of the laws governing chemical action and the properties of the common elements and their compounds.

The lectures are practically demonstrated by experiments which assist the student in gaining a clear knowledge of the subject.

Junior Laboratory Course. The student is provided with a complete equipment of apparatus for qualitative analysis. Particular attention will be given to the separation and identification of the compounds of the U. S. Pharmacopoeia, together with tests of purity.

SENIOR YEAR—Four hours per week.

The work of this year is devoted to Organic Chemistry, Toxicology and Urine Analysis. The course will consist of lectures and practical laboratory work throughout the year on these subjects.

Organic Chemistry. The course will cover the whole field of this branch which is so important to the pharmacist. Special attention will be paid to those compounds which are of pharmaceutical value, including synthetical and medicinal preparations.

Toxicology and Urine Analysis. The course will include lectures and practical laboratory work in the identification of the common poisons and a careful study of the abnormal constituents found in urine. Each student will make a complete analysis of a large number of samples from the hospital clinics.

Quantitative Chemistry. This course will cover the usual gravimetric and volumetric determinations. It will be a practical course in estimating the strength of pharmaceutical preparations.

Botany.

Prof. A. B. Ulrey.

The course in Botany comprises a thorough study of flowering plants during the Junior year and a survey of cryptogamic plant life in the Senior year.

Each phase of the subject is presented with reference to the special needs of the pharmacist. The complete course is sufficiently comprehensive to afford an acquaintance with all of the great departments of botany.

The course includes a study of the gross structure, functions and classifications of plants; the microscopic structure of the tissues and lower forms of plant life.

The laboratory for microscopic work is equipped with a good grade of compound microscopes, several hundred pre-

pared slides and a complete electrical projection apparatus for demonstration of microscopic objects on the screen.

FEES AND EXPENSES.

Matriculation.

The fee for matriculation is five dollars, and is required of junior students upon entering the class for the first time, and of senior students who have taken the first year's work elsewhere.

Tuition Fees.

The tuition fee for each year is seventy-five dollars. The payment of this fee entitles the purchaser to one continuous course of lectures and laboratory instruction in all departments. The tuition fee covers all drugs, chemicals and other materials consumed by the student in the laboratories, no extra charge being made for these. Special Students may, by permission of the faculty, take any part of the course at a proportionate tuition fee, providing that such fee shall not be less than twenty-five dollars.

Laboratory Deposit.

Chemical and pharmaceutical apparatus and supplies, together with microscopes and other implements required in the work of the course are furnished by the College without expense to the student, but breakage or damage to apparatus must be paid for, and for this reason each junior or senior student is required to deposit ten dollars with the Secretary. This deposit, or such portion of it as is not required for the specified purpose, will be refunded at the close of the term.

A diploma fee of five dollars will be required.

Payment of Fees.

All fees must be paid at the beginning of the term. Where this is impossible, the laboratory deposit and at least one-third of the tuition must be paid upon entering the class. The balance of tuition to be secured by note to be paid sixty days from date of matriculation.

Special Students.

Students may matriculate for any separate course. Medical students will find a systematic instruction in pharmacy an excellent foundation for a medical course. The instruction offered in this school of pharmacy will give a working knowledge of chemistry as it is applied in the engineering and metallurgical industries.

Employment.

The course of lectures has been so arranged as to permit those who desire it to devote a portion of their time to employment.

The Secretary will keep a register of students seeking such employment, and will give every assistance possible in procuring it for them.

Correspondence.

Letters of inquiry will receive careful and prompt attention. Address all communications to C. W. Hill, Secretary, 409 415 East Third street, Los Angeles, Cal.

Text Books.

Pharmacy—Caspari's, United States Pharmacopoeia.

Chemistry—Simon, Prescott, Sullivan, etc.

Toxicology—Brundage, Taylor's Outlines, Blyth's Poisons.

Materia Medica—Sayre.

Botany—Bastin's College, Gray's structural Botany.

Physiology—Kirke's American Text Book.

THE COLLEGE OF THEOLOGY

The Maclay College of Theology—founded by State Senator Charles Maclay in a generous endowment of lands—was prosperous under the direction of its first Dean, the late Rev. R. S. Maclay, D.D., and an efficient corps of helpers.

Moving from its first home at San Fernando it was continued under the deanship of the late Rev. George Cochran, D.D.

After a few years' rest induced by the stringency of the times, the College has been re-opened this year by the University Trustees in cordial response to the request of the Southern California Annual Conference.

The Board by unanimous choice elected as the new Dean the Rev. E. A. Healy, for the past seven years pastor of the University Church. Dean Healy comes to his new work with matured knowledge of the requirements of the pastorate, and with a very considerable experience in educational work as superintendent and teacher in school and college. His own scholastic honors are the A. B. and A. M. degrees from Victoria and Toronto Universities respectively, and the doctorate in Divinity from his Alma Mater.

He will conduct classes in Historical Theology and in Systematic Theology. Associated with him are the following Faculty members, all scholars of high attainment, and of successful experience as instructors.

Rev. Eli McGlish, D.D.,

Professor of Christian Evidences.

Rev. James Blackledge, A.M.,

Professor of the Hebrew Language and Literature.

Rev. J. G. Hill, A.M., S.T.B.,

Professor of the English Bible.

James Main Dixon, A.M., F.R.S.E.,

Professor of the English Language and Literature.

Festus E. Owen, A.M.,

Professor of the Greek Language and Literature.

Rev. Robert McIntyre, D.D.,

Lecture in Homilistics.

Rev. Geo. B. Smythe, D.D.,

Lecturer on Christian Missions.

Detailed information concerning courses and hours of recitation will be furnished on application to the Dean.

The intimate relation of Maclay College to the College of Liberal Arts is of great advantage to both, appearing in the convenience of location on the same campus, and the interchange of credits where subjects are common to the two colleges.

It is the aim of the College of Theology to do all that is possible to furnish the churches of our constituency with preachers who shall be at once scholarly and evangelical and pastors who shall be apt and successful in their difficult work.

In pursuance of this aim the following courses are arranged, with the specified conditions of admission:

1. **The Degree Course.** A three years' course for students who have obtained the A.B. degree. The completion of this course will entitle the graduate to the degree of Bachelor of Divinity.

2. **The Diploma Course.** This is also a three years' course, open to students, who have the equivalent of junior standing in the College of Liberal Arts. The Maclay College Diploma will be granted to graduates in this course.

3. Students will be admitted as special students to any classes that, in the judgment of the Faculty, they can enter with advantage, and certificates will be given for all subjects satisfactorily taken.

The College Calendar is the same that is published elsewhere for the College of Liberal Arts, to which reference is directed.

Los Angeles cannot be excelled as a residence city.

The cost of living is moderate and may be made slight by association in clubs, etc.

The Presiding Elders are glad to employ students on charges in the vicinity where conditions are favorable.

For further information apply to Maclay College of Theology, University, Los Angeles, Cal.

THE PREPARATORY SCHOOL

CALENDAR 1908-1909.

1908.

Sept. 14	Monday	}	Entrance examinations and registration for the First Semester.
Sept. 15	Tuesday		
Sept. 16	Wednesday		Instruction begins.
Nov. 26	Thursday	}	Thanksgiving Vacation.
Nov. 27	Friday		
Dec. 21	Monday	}	Christmas Vacation.
1909			
Jan. 3	Sunday		
Jan. 28	Thursday		Day of Prayer for Colleges.
Jan. 29	Friday	}	Mid-year Examinations.
Feb. 3	Wednesday		
Feb. 3	Wednesday		First Semester ends.
Feb. 4	Thursday	}	Entrance examinations and Registration for the Second Semester.
Feb. 5	Friday		
Feb. 8	Monday		Instruction Begins.
Feb. 22	Monday		Washington's Birthday.
April 3	Saturday	}	Spring Vacation.
April 11	Sunday		
June 10	Thursday	}	Final Examinations.
June 15	Tuesday		
June 16	Wednesday		Graduation Exercises.

GENERAL STATEMENT.

The Preparatory School is maintained in connection with the College of Liberal Arts. The classes are instructed either by the College professors, or by teachers under their supervision. The students enjoy all the general advantages open to students in the College, including library, lectures, laboratories, religious and social privileges.

While the work of this school is mainly that of preparing students directly for the College, yet without lessening the work in this direction, the authorities realize the importance of giving increased attention to the large number of young

people who desire academic instruction, but do not wish to devote the necessary time and means to secure a collegiate education. For this large and worthy class, the school purposes to provide sufficient facilities, so that in the limited time at their command they may acquire some preparation for their future work.

Requirements for Admission.

Applicants must have finished work equivalent to that required for admission to the high schools. They must show evidence of fitness to begin the work of the classes in the school. Persons who wish to take a partial course, or to select their studies, can enter the preparatory school without a formal examination, and pursue such subjects as they may be prepared to take.

Registration.

The method and regulations in registration are the same as those in the College.

Absence from Exercises.

The rules and regulations concerning absences from required exercises are the same as in the College (see page 35).

Reports.

Reports of standing are sent to the parent or guardian of each student each month. The Faculty desire the co-operation of parents in their efforts to maintain a high grade of scholarship and deportment.

Graduation and Diplomas.

The Preparatory School has a special evening set aside in commencement week for its graduation exercises.

Each student who completes one of the regular courses of study will be granted a diploma.

Literary Societies.

The Webster Literary Society is composed of young men who meet each week for training in public speaking.

The Willard and Annesley Literary Societies are composed of young women who meet each week for training in literary work.

COURSES OF STUDY

The regular courses of study are four in number, any one of which is designed to prepare students to enter the College of Liberal Arts, or institutions of similar standing. A student who has completed one of these courses is admitted to the College without examination.

	A	B	C	D	Electives
1st Year	5 English, 2:00. 5 Latin, 10:25 or 1:05 5 Algebra, 11:20. 2 Expression, 2:55. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.	5 English, 2:00. 5 Latin, 10:25 or 1:05 5 Algebra, 11:20. 2 Expression, 2:55. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.	5 English, 2:00. 5 Latin, 10:25 or 1:05 or German, 10:25. 5 Algebra, 11:20. 2 Expression, 2:55. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.	5 English, 2:00. 5 Latin, 10:25 or 1:05 or German, 10:25. 5 Algebra, 11:20. 2 Expression, 2:55. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.	5 English, 1:05. 5 †German, 11:20. 5 Algebra, 10:25. 5 Drawing, 2:00-2:55.
2nd Year	5 English, 1:05. 5 Latin, 8:55. 5 Anc. Hist., 2:00. 4 Botany, Recit., 11:20, M., W. Lab. 10:25, M., W., 10:25-11:20, T., Th.	5 English, 1:05. 5 Latin, 8:55. 5 Anc. Hist., 2:00. 4 Botany, Recit., 11:20, M., W. Lab. 10:25, M., W., 10:25-11:20, T., Th.	5 English, 1:05. 5 Latin, 8:55 or †German, 11:20. 5 Algebra, 10:25. 4 Zoology, Recit., 2:00, M., W. Lab. 2:50 M., W., 2:00-2:55 T., Th.	5 English, 1:05. 5 †German, 11:20. 5 Algebra, 10:25. 5 Drawing, 2:00-2:55.	2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.
3rd Year	2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05. 5 Greek, 11:20. 5 Latin, 2:00.	2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05. 5 English, 8:00. 5 Latin, 2:00.	5 Elective. 5 Chemistry, Recit., 11:20 T., Th., F., Lab. 1:05-2:55, W., Th.	5 Elective. 5 Chemistry, Recit., 11:20 T., Th., F., Lab. 1:05-2:55, W., Th.	English. Latin. German.
4th Year	5 Plane Geom., 8:55. 5 Amer. Hist., 10:25. 5 Greek, 10:25. 5 Latin, 8:00. 5 Physics, 8:55 or Chemistry, Recit., 11:20 T., Th., F., Lab. 1:05-2:55, W., Th.	5 Plane Geom., 8:55. 5 Amer. Hist., 10:25. 5 Elective. 5 Latin, 8:00. 5 Physics, 8:55 or Chemistry, Recit., 11:20 T., Th., F., Lab. 1:05-2:55, W., Th.	5 Elective. 4 Botany, Recit., 11:20, M., W. Lab. 10:25, M., W., 10:25-11:20, T., Th.	5 *Mathematics A., 1:05, M. Tu., W., Th.; 10:25 F. 5 Drawing, 2:00-2:55.	*Mathematics A. Physics. German. French. Botany. Chemistry. Spanish. Anc. Hist. English. Zoology. Algebra.

NOTE.—The figures denote the number of class recitations (or their equivalent in laboratory work and drawing per week).
 *Mathematics A includes Trigonometry, Solid Geometry, and a review of Algebra.
 †Students who have received credit for two years of German and who intend to take up German 2 in their freshman year in College must review the second semester of German 1 (College) in their last semester in the preparatory school.

DEPARTMENTS OF INSTRUCTION.**ENGLISH.****First Year.****First Semester.**

1. **Review of Technical Grammar.** One hour a week.
2. **Gayley's Classic Myths.** One hour a week.
3. **Classics.** Three hours a week.
Scott: Lay of the Last Minstrel.
Irving: Sketch-book (selections.)
Hawthorne: Tales of the White Hills.
Lowell: Vision of Sir Launfal.

Second Semester.

1. **Rhetoric and Composition.** Themes, with special attention to paragraph-structure. One hour a week.
2. **Gayley's Classic Myths.** One hour a week.
3. **Classics.** Three hours a week.
Sir Roger De Coverley Papers.
Coleridge: Ancient Mariner.
Shakespeare: Merchant of Venice.

Second Year.**First Semester.**

1. **Composition.** One theme a week. Special attention to rhetorical structure.
2. **Rhetoric:** Gardner, Kittridge and Arnold. One hour a week.
3. **Classics.** Three hours a week.
George Eliot: Silas Marner.
Scott: Ivanhoe.
Carlyle: Essay on Burns.

Second Semester.

1. **Composition.** One theme a week. Exposition with special attention to unity, clearness, force and emphasis.
2. **Rhetoric:** Gardner, Kittridge and Arnold. One hour a week.

3. Classics. Three hours a week.

Macaulay: Essay on Warren Hastings.

Tennyson: Idylls of the King.

Shakespeare: Julius Caesar.

Third Year.**First Semester.****1. Composition.** One theme a week.**2. Painter's Elements of Criticism.** One hour a week.**3. Gayley and Young's Principles and Progress of English Poetry.** Three hours a week.

A. Outline-History of English Literature.

B. Chaucer, Milton, Gray, Wordsworth, Shelley, Keats and Browning.

Second Semester.**1. Composition.** One theme a week.**2. Classics.** Four hours a week.

Burke: Speech on Conciliation.

Webster-Hayne Debate.

Shakespeare: Midsummer-Night's Dream.

Shakespeare: Macbeth.

EXPRESSION.

Two hours a week, throughout the year, for students in the first year. This course is designed to make the student more proficient in common reading, and to enable him not only to interpret clearly the literary thought, but to express it as well.

Much stress is laid upon English Pronunciation. Perhaps there is no subject in education that is of so much importance, and yet so deeply neglected. "The manner in which one speaks his mother tongue is looked upon as showing more clearly than any other one thing what his culture is, and what his associations have been." Selections from the best literature will be used in the study of the principles of vocal expression. Sight reading will be one of the features of the work.

FRENCH.

First Year.

The aim of the work in this year is to enable the student to pronounce, understand, read and write very simple French. To this end is given constant drill in reading aloud, writing from dictation, and viva voce translation, as well as the ordinary work in grammar and writing of exercises.

The vocabulary is increased by the memorizing of poems and there is a constant endeavor to train the ear as well as the eye. The grammar work comprises the forms and simple uses of the article, noun, adjective and pronoun, with the regular conjugations and some of the commonest irregular verbs.

Second Year.

The grammar is finished and reviewed. Increased facility in translation is required by the reading of a large amount of easy and interesting prose, and one recitation period a week is devoted to the rendering into French of connected English prose based on the text which is being read. A modern comedy is read at sight. This part of the recitation is conducted almost entirely in French.

GERMAN.

First Year.

Collar's Beginning German. This text book provides the material for the first year's course. It comprises studies in pronunciation, grammar, drill on the forms, elementary conversation, and various anecdotes and poems for translation and memorizing. Further interesting reading and material for conversation and composition is taken from Guerber's *Maerchen und Erzaehlungen*.

Second Year.

The grammar is finished and reviewed. Various modern German stories, poems, and plays are read and reproduced, both orally and in the form of written exercises.

The class work is conducted mainly in German, and the ability to read accurately and fluently and express simple thoughts in spoken and written German is required.

GREEK.

First Year.

White's First Lessons is used throughout the year. The aim of the first year's work is thoroughly to acquaint the pupil with forms.

Second Year.

During this year the first four books of Xenophon's Anabasis are translated. Daily practice is given in sight reading. Pearson's Greek Prose Composition is used throughout the year. The work is made the basis of a thorough drill in grammar. Goodwin's Greek Grammar is used for reference.

Third Year.

Books I-IV of Homer's Iliad are read and translated. Practice in sight reading is given daily from Books V and VI, Scansion, forms, syntax and mythology are given special attention. Pearson's Greek Prose Composition is used throughout the year.

Note. Beginning classes in Greek are carried on in the College Department in which the work outlined above is covered in two years. Preparatory students who show special ability and strength in this subject are admitted to these College classes and are advised to avail themselves of this privilege. The same credit (three units) is given to Preparatory students in these classes as is granted in the Preparatory Department for the three years work.

HISTORY.

The work in History is carried on by means of text-books, lectures, essays, and library work. Constant reference is made to the atlas and dictionary, maps are drawn, essays required, and the topical method is used for special subjects. Full and carefully kept note books are required in all the subjects in this department.

1. **Ancient History.** Greek and Roman History. **One year.**
2. **American History and Civics.** **One year.**

LATIN.

First Year.

The aim of the first year's work is to attain an accurate pronunciation, a thorough knowledge of all the regular forms of declension and conjugation, together with the simpler principles of syntax, and vocabulary of about eight hundred common words.

Second Year.

Four books of Caesar's Gallic War are read. Regular forms are reviewed and essential irregular forms are learned in a systematic study of Latin grammar. There is regular practice in oral or written translation into Latin of exercises based on the text read, and sight translation is an important part of the year's work. Some attention is given to subject matter.

Third Year.

In the reading and interpretation of six of Cicero's orations the time is equally divided between language and subject matter. The grammar is thoroughly reviewed in regular oral or written composition based on the text. An attempt is made to gain a definite knowledge of Cicero and his age, of the Roman government in Cicero's time, and of the city of Rome. The simpler letters are read at sight.

Fourth Year.

The first six books of Vergil's Aeneid are read and interpreted. A special effort is made to approach the work as poetry. Prosody, figures of speech, mythological references, and poetical constructions are studied. Medical reading is insisted upon. An idea of the Aeneid as a whole is gained by the sight reading of portions of the last six books. Two days each week are occupied during the first semester in a review of syntax and in prose composition.

MATHEMATICS.

The aim of the course in mathematics is to cultivate the habits of independent reasoning, of accuracy of work, of precision and clearness in the statement of conclusions and the reason upon which they depend. First in importance is the intellectual training that makes the mind a ready and keen

tool; second, the orderly acquisition of facts. Absolute thoroughness and work that increases in amount and difficulty with the student's increasing capacity, are required. The student's efficiency is measured by his power to do. Throughout the course written reviews and test examinations are frequent.

Algebra, First Year.

Wentworth's New School Algebra, through Quadratics. Special emphasis is placed on factoring and on the solution of equations. The object of the study is not only to acquire a knowledge of the subjects required for admission to the leading universities, but to secure the mental discipline for its own sake, and such a drill as looks to the use of the algebraic method in future study.

Algebra, Second Year.

Beman and Smith's Elements of Algebra. A review of the first year's work is taken, and the text book is completed. This work is supplemented by lectures on the theory of algebra, and these form a most important part of the course.

Algebra, Third Year.

Fisher and Schwatt's Higher Algebra, two hours a week. This course is given as an elective for students of marked mathematical ability, and is open only to those who have taken Course 2.

Geometry.

1. Plane Geometry. One year. Careful attention is given to constructions, clear and logical expression, and above all to the attainment of the power to do original work in geometry. The exercises of the text-book are supplemented by constant suggestions by the teacher for investigations.

2. Solid Geometry, four hours a week, during the second semester.

Trigonometry.

Plane Trigonometry, and a brief study of Logarithms and the solution of the Right Spherical Triangle, four hours a week, during the first semester.

DRAWING.**First Year.**

Ten hours a week.

Freehand Drawing: First Semester—Elementary line work from geometric solids and simple natural objects.

Second Semester, advanced line work in pencil from casts and still life, flat wash in black and color.

Second Year.

Ten hours a week.

Instrumental Drawing: First Semester—Linear drawing, simple geometric problems, lettering.

Second Semester, advanced geometric drawing, conic sections, projections.

PHYSICAL TRAINING.**First Year.**

Systematic class work. This consists of vigorous drill with dumb bells, clubs, bar bells, etc., for the men; for the women, general development exercises in walking and running, simple, free movements, recreative games and outdoor sports. Required of all first year students. Four hours a week.

Second Year.

Progressive graded work on various pieces of gymnastic apparatus, mat work and gymnastic games for the men; more difficult free movements, relaxing exercises, mat work, walking, drill, and dumb bells and games in the open air for the women. Required of all second year students. Four hours a week.

SCIENCE.**Biology.**

Botany and Zoology, each given as a full course of eight hours per week, for one year. The work in each is a combination of laboratory study, lectures and recitations, with a careful notebook record of the work actually done by the student under the direction of the teacher. The ground covered and the method employed are such as fully meet the requirements of any college to which the student might desire to go.

Chemistry.

The subject of Chemistry continues throughout the year, and includes all the general principles theoretical and practical of inorganic chemistry, such as given in McPherson and Henderson, *Elementary Study of Chemistry*. Recitations and individual laboratory work occupy not fewer than seven hours per week. A special effort is made throughout to develop the scientific habit of thought and to lead the student to observe the chemical changes constantly taking place. In the laboratory each student is furnished with a desk and all necessary reagents and apparatus, and is required to keep a complete record of the work done during the year.

A laboratory fee of eight dollars per semester, and an additional deposit of five dollars is required. The loss by damage or destruction of apparatus will be deducted from the deposit of five dollars, and the balance refunded at the close of the semester.

Physics.

This course is designed to give the student a familiarity with the principal facts, laws and theories of Physics. This is accomplished by the careful study of a text and definite laboratory work for one year.

A laboratory fee of four dollars per semester is charged.

SPANISH.

First Year.

This year's work is designed to fit the student to pronounce, understand, read and write simple Spanish. To this end there is constant drill in reading aloud and translation writing and exercise, dictation and simple conversations. The grammar work consists of the study of the different parts of speech and their use in the sentence with relation to each other.

Second Year.

The grammar is finished and reviewed. Short stories from popular authors are read and conversations formed in Spanish, using the reading as a text.

GENERAL INFORMATION.

For general information concerning location of school, religious privileges, library and reading room, the museum and the science laboratories, athletics and the gymnasium, see pages 88-98.

PREPARATORY SCHOOL.**Tuition and Fees.**

Tuition, per semester, in advance	\$35.00
Tuition per year (two semesters) if paid in advance	\$67.00
Tuition, for six to ten hours, per semester	25.00
Tuition, for five hours, or less, per semester	17.00
(Hours as used above means so many hours per week.)	
Gymnasium and physical education taken without other studies, per semester	8.00
Registration fee included in above, but not subject to rebate	5.00
Diploma fee	5.00
Laboratory fees	
Chemistry	8.00
Physics	4.00
Botany	4.00
Zoology	4.00

An additional deposit of five dollars to cover breakage is required in Chemistry. This deposit, less cost of breakage is refunded at the end of the year.

Students who are recommended by a quarterly conference as candidates for the ministry; young women who are recommended for the work of Deaconesses by a quarterly conference and the Conference Board of Deaconesses; and the children of ministers in the regular work of any evangelical denomination, may have their tuition reduced to one-half the regular rate.

A discount of ten per cent. of the tuition will be allowed when two or more students enter from the same family.

No rebate will be allowed for less than one-half a semester's enforced absence.

The Declamation Prize.

A prize of ten dollars, offered to the student who wins in contest in declamation, was awarded in 1907 to Mr. Benj. Scott.

Rooms and Board.

Students are required to submit to the Faculty a statement of the places where they desire to room and board, and must secure their consent in each case.

Board and furnished rooms can be secured in private families at from three dollars to five dollars per week. Furnished rooms accommodating two students cost from four to eight dollars per month.

Other expenses incident to school life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the school for want of money.

For further information address:

President George F. Bovard,
Los Angeles, California.

CATALOGUE OF STUDENTS

COLLEGE OF LIBERAL ARTS.

Name	Major	Hours	Home Address
Adkinson, Katherine Wiley.....		2....	Los Angeles
Allen, Anais Julia.....		15....	Los Angeles
Allen, Florence Elizabeth.....		30....	Los Angeles
Almy, John Hale.....		8.....	Ocean Park
Anderson, Mary Elaine.....	History....	101.....	El Monte
Anderson, Maude Estella.....		4....	Los Angeles
Ashcraft, Edwin Perry.....	History....	108.....	Hynes
Ashcraft, Norman Blaine.....		10.....	Palms
Asher, Katherine Lucille....	Latin.....	15.....	El Monte
Avakian, Arsen Harootune...Chem.....		70....	Los Angeles
Barka, Homer Earl.....	E. En'gr....		Monrovia
Barker, Everett Berman.....		5....	Los Angeles
Ball, Adelaide Lucy.....	History....	82.....	Downey
Ballard, John Hudson.....	Phil.....	61....	Los Angeles
Beane, George Vernon.....		6....	Los Angeles
Beane, Gertrude Emily.....	German....	114....	Los Angeles
Beckwith, Hermon Eldridge..History....		110.	South Pasadena
Berryman, Olive Perkins.....		19....	Los Angeles
Best, John Harden.....	C. En'gr....	18....	Los Angeles
Best, Oliver Warren.....			Los Angeles

A. B. University of Southern California.

Best, Sarah Edna.....	English....	20....	Los Angeles
Bien, Beulah Vernon.....			Los Angeles
Blackburn, Porter Conrad....	English....	21....	Los Angeles
Boller, Gordon.....	English....	18....	Los Angeles
Bostwick, Florence Fern.....			Los Angeles
Bouton, Elsa J. Mrs.....			Los Angeles
Bovard, Edna Georgina.....			Los Angeles
Bowers, Chester Herbert....	Zoology....	71....	Los Angeles
Bowers, Isabelle May.....	Zoology....	110....	Los Angeles
Bowron, Fletcher.....	Econ.....	3.....	Perry

Name	Major	Hours	Home Address
Bowser, Charles Arthur.....	Zoology....	22.....	Los Angeles
Brest, Ellis Arthur.....	C. En'gr....	16.....	Pomona
Bridges, Sadie Ethel.....		52.....	Los Angeles
Bridwell, Walter Clay.....		19.....	Los Angeles
Brooks, Ida Leona.....		15	Mansfield, S.Dak.
Brooks, Vera Howard..	A. B. Occidental College..		Los Angeles
Brown, Edgar Kapp.....	English.....		Los Angeles
Brown, Frederic Raymond.....		39.....	Los Angeles
Brown, James Lorin.....		17.....	Los Angeles
Brown, Maggie Jane Eiffel...English....		17.....	Los Angeles
Brown, Zula Frances.....	English....	114.....	Los Angeles
Browning, Finley.....		12.....	Long Beach
Bruce, Ray William.....	History....	25.....	Hemet
Bruckman, Clara Lillian.....	French....	10.....	Los Angeles
Bruckman, Edith Louise.....	French....	68.....	Los Angeles
Buchanan, Genevieve.....		41.....	Los Angeles
Buckmaster, Guy W.....	Chem.....	121.....	Whittier
Buffington, Charles Stewart..Chem.....		43.....	Woody
Bulkley, Paul.....			Redondo
Burchell, Ruth Lota.....			Erie, Ill.
Burek, Stanislaus Leon.....	Chem.....	67.....	Wausau, Wis.
Burk, Earl Elihu.....	Zoology.....		Los Angeles
Burmeister, Emma Minnie...Latin.....		54.....	Los Angeles
Burris, Lillian Victoria Mrs.....		4	Huntington Park
Butler, Joseph Henry.....	Econ.....	65.....	Downey
Butters, Lauretta Marguerite.....		44.....	Los Angeles
Cain, Morris Allen.....		38.....	Santa Ana
Campbell, Clarence P.....	M. En'gr....	12.....	Los Angeles
Carpenter, Leigh Richard.....			Los Angeles
Carrell, Frank Robert....		12.....	Gardena
Carter, Ray Allen.....	Zoology....	118.....	Los Angeles
Cartwright, Morse Adams.....			Los Angeles
Catton, Joseph Henry.....	Zoology.....		Pasadena
Chamlee, Nettie Emeline.....		16.....	Los Angeles
Champion, Ray Miller.....		8.....	Colton
Cheek, Bertha.....		9.....	Aurora, Ind.
Chelgrene, Silva Elisa Dora..English....		42.....	Los Angeles

Name	Major	Hours	Home Address
Christopher, Edward Linn...	M. En'gr...	12.....	Los Angeles
Clark, Ralph Waldo.....	Math.....	70.....	Los Angeles
Clark, Melville Nathaniel.....		16.....	Altadena
Clark, Stephen Hart.....	Math.....	72.....	Los Angeles
Clay Thomas Lyman.....		33.....	Los Angeles
Clewett, Howard Sinclair.....			Long Beach
Cocks, Edna Agnes.....		8.....	Los Angeles
Cogswell, Frederick Allen....	Physics....	50.....	El Monte
Collins, Charles Raymond.....			Los Angeles
Collison, John Clyde.....	Latin.....	49.....	Los Angeles
Coloneus, Grover C.....	E. En'gr....	13.....	Los Angeles
Comstock, Solomon Boyd....	Econ.....	89.....	Los Angeles
Cook, Clarence Westgate....	E. En'gr....	16.....	Los Angeles
Cook, Orwyn Wesley Edgar..	English....	109.....	Los Angeles
Cooper, Leslie Judson.....		15.....	South Pasadena
Corbin, John Walker.....	English....	16.....	Los Angeles
Crabb, Alice.....	Latin.....	15.....	Los Angeles
Crall, David Edwin.....	History....	41.....	Los Angeles
Crandall, Norman Stuart.....		10.....	Los Angeles
Cranmer, George Owen.....		24.....	Beardsley, Minn.
Crocker, Leon James.....	Econ.....	32.....	Clearwater
Crossman, Ralph.....		8.....	Los Angeles
Curl, Robert Latta.....		65.....	Los Angeles
Curtis, Teresa Marshall.....			Los Angeles
Cushman, Clara Elizabeth....	Latin.....	54.....	Los Angeles
Cynn, Hugh Heungwo.....	Zoology....	15.....	Los Angeles
Davidson, Harold Edwin....	E. En'gr....	56.....	Alhambra
Dayman, Evelyn Laura.....		7.....	Long Beach
Decius, John Harman.....		16.....	Los Angeles
Dell, Hazel.....	English....	85.....	Los Angeles
Deniston, Luther Ward.....		61.....	Los Angeles
Deputy, J. Watson.....			Riverside
Dick, Jennie M.....	History....	106..	McPherson, Ks.
Dick, Samuel Finley.....		15..	McPherson, Ks.
Donahue, Marie Aloysius...	English ...	10+	Los Angeles
Doughty, Irma S.....			Milton, Ohio
Downs, Wilber Frank.....		12.....	Long Beach
Draper, Ella Martin.....	Latin.....	15.....	Ontario

Name	Major	Hours	Home Address
Dyck, Henry Otto.....	Zoology.....		Huntington Park
Ebihara, Shichiro.....	Phil.....	83	Yoshida-Mura, Jap.
Ellingson, Jennie Margaret.....		15	Phoenix, Ariz.
Ensley, Oliver P.....	History....	49	Ontario
Everett, Marietta Victoria....	English....	38	Los Angeles
Fallas, Roy Edwin.....		15	Los Angeles
Faulkner, George Seymour.....			Santa Paula
Faull, Adina May.....	English....	104	Los Angeles
Ferguson, Maude Mary.....		16	Los Angeles
Fitch, Frank Brewer.....	Zoology....	81	Los Angeles
Fogel, Moses Miller.....		12	Santa Monica
Fulton, Theodore..	B. L. Occidental College.....		Los Angeles
Gates, Austin Bryant.....	E. En'gr... 44		Alhambra
Gavagan, Ed. C.....	Math.....		Los Angeles
Gay, Leslie F. Jr.....	History....	82	Los Angeles
Gholz, Walter Irvin.....		19	Pasadena
Geisle, Harold Lee.....			Muscatine, Iowa
Gibbs, Robert Adams.....	Zoology....	114	Los Angeles
Glanzman, Minnie Margaret.....		5	Idaho Falls, Ida.
Glessner, Mary Eleanor.....			Findley, Ohio
Goetz, William Henry.....	Chem.....	104	Los Angeles
Goode, Ray Edgar.....			Glendale
Gordon, Claribelle.....	English....	48	Los Angeles
Gough, Susanne.....	English....	14	Los Angeles
Grace, Charles Stewart.....	C. En'gr... 6		Rivera
Graham, Russel Goodman.....		19	Los Angeles
Green, Maxwell Talbot.....			Reedley
Guild, Ellis Darwin.....	History....	44	San Diego
Gunning, Alma Edith.....	English.....		Los Angeles
Haigler, Charles Alvin.....	Math.....	44	Tempe, Ariz
Halfpenny, Ida Belle.....		17	Ontario
Halfpenny, Mary Lillian.....		68	Ontario
Hall, Walter Alexis.....	C. En'gr... 13		Santa Ana
Halloran, Edna Parthenia....	French....	13	San Diego
Hanna, Tacie May.....	English....	47	Colton
Harriman, William Ruddy....	Chem.....	39	Los Angeles
Harrison, Permelia Adelaide.....		22	Santa Monica

Name	Major	Hours	Home Address
Hart, Ethel.....		14.....	Brawley
Hasegawa, Aizi.....	Econ.....		Kanzaki, Japan
Hatcher, Mabel Adrienne.....		15.....	Los Angeles
Haydock, Earl Henry.....	English....	18.....	Tulare
Hazard, Cassandra Pauline..	Botany....	45.....	Whittier
Henderson, Randall Thomas..	En'gr.....	16.....	Los Angeles
Hidden, Carrie Maybelle.....	History....	51.....	Los Angeles
Hillman, Will Hoffman.....		19.....	Los Angeles
Hitt, Eleanor.....		15.....	Los Angeles
Hoashi, Riichiro.....		15.....	Los Angeles
Hoegerman, Rosalia Charlotte	Chem.....	110.....	Los Angeles
Hogan, Ethel Josephine.....		34.....	Los Angeles
Holcomb, Minnie Mabel.....	English....	19..	San Bernardino
Holder, Edith Marian.....		52.....	Los Angeles
Holland, Eleanor Hildred.....		7.....	Los Angeles
Homer, Charles Henry.....	Chem.....	96.....	Los Angeles
Homer, Ralph W.....			Los Angeles
Horton, Mark McKendree....	English....	43.....	Los Angeles
Hoskins, Dora Belle.....			Los Angeles
Howe, John Paul.....		31.....	Los Angeles
Hughes, William Vance.....			Bismarck, N. Dak.
Hunt, Carl Williams.....	Math.....	139.....	Los Angeles
Hurst, Florence Louise.....		10.....	Los Angeles
Husser, Mildred Menga.....	German.....		Los Angeles
Hutchinson, Robert Cecil.....		2.....	Los Angeles
Iliff, Ruth Margaret.....	German.....		Whittier
Jackson, Marie Herbert.....	History....	15.....	Los Angeles
Jackson, Smith.....			Debraska, Ind.
Jackson, Wayne Bassett.....	Chem.....	30.....	Hollywood
James, Everett Rockwell.....		15.....	Hollywood
Jesse, August Lawrence.....			Akron, Colo.
Jessup, Walter Edgar.....	C. En'gr....	16.....	Los Angeles
Jones, Clarence Edward.....	Chem.....	84.....	Los Angeles
Joslin, Phoebe Ione.....		47.....	Los Angeles
Keasby, Edward.....	E. En'gr....	33.....	Los Angeles
Keller, Clefa Edna.....	German....	49.....	Los Angeles
Kent, Charles August.....			Monrovia

Name	Major	Hours	Home Address
Kent, Ethel Teresa.....			Los Angeles
Kerns, Ruth Manson.....			Findlay, Ohio
Kimmell, Emma Marion.....			Hemet
King, Earl V.....	E. En'gr...	18.....	Los Angeles
King, Maude Gladys.....	English....	109.....	Los Angeles
Kittle, Walter F.....	Chem.....	10	Huntington Park
Knoles, Tully C.....			Glendale
A. B. University of Southern California.			
Koide, Musuzi.....	Econ.....		Los Angeles
Kono, George Tamotsu.....			Los Angeles
Kuster, Edward G. Mrs.....	Phil.....	111.....	Los Angeles
Laizure, Oliver Clemmans.....		3.....	Los Angeles
Landreth, Lillian Maudee....	History....	54.....	Pasadena
Larzalere, Ray Verplank.....			Escondido
Layne, Louise Walker.....		11.....	Los Angeles
Layne, Newton Mead.....	English....	62.....	San Diego
Lerch, Albert Yerington.....			Redondo
Lochwitzky, Alexander Michelovitch.....			Los Angeles
Maas, Arthur Richard.....	Chem.....	26.....	Los Angeles
Mahoney, Delia Mae.....		9	Leesburg, Idaho
Mallory, Gertrude.....	English....	52.....	Los Angeles
Manatt, Hazel Morgan.....		16.....	Los Angeles
Matthews, Arba John.....		13.....	San Jacinto
McClellan, Leslie Newman.....		14.....	Los Angeles
McEndree, Nina Fay.....		18.....	Los Angeles
McKown, Hazel Evangeline.....			Los Angeles
McMillan, Carrie Mauneena.....		3.....	Los Angeles
McNeil, Diana Bralah.....	History....	72	Cape Palmas, Af.
Mealey, Roy Everett.....	History....	85.....	Compton
Mee, Thomas Henry.....	History....	67.....	St. Helena
Merrill, Monroe.....	Chem.....	98.....	Hollywood
Miller, Maude Hazel.....		12.....	Los Angeles
Miller, Robert Patchen.....	M. En'gr...	19.....	Los Angeles
Mitchell, Frances.....	History....	43.....	Los Angeles
Mohler, Mark.....	History....	65.....	Los Angeles
Moore, Clarke Alphonso.....		12.....	Whittier
Moore, Walter Jr.....	C. En'gr...	9....	Los Angeles
Murray, Hamilton.....			San Gabriel

Name	Major	Hours	Home Address
Myrick, Lydia.....	English....	62..	Spokane, Wash.
Neff, Lawrence Wilson.....	Phil.....	38..	San Bernardino
Neiswender, Leland William.....			Los Angeles
Newkirk, William Bently....	Chem.....	31....	Los Angeles
Nickerson, Charles Fredrick..	C. En'gr....	8....	Los Angeles
Noble, Carrie M.....		34....	Los Angeles
Nordahl, Henry Alfred.....	German....	92....	Escondido
Northrup, Geneveive.....	English.....		San Diego
Nuffer, Grace Amelia.....	English....	13.....	Lindsay
Nye, Alice Witherell.....	Greek....	18....	Los Angeles
Obarr, Richard Halsel.....		12.....	Santa Ana
O'Brian, Dewitt Hamilton...	Chem.....	44....	Los Angeles
O'Brien, Julia Louise.....			Los Angeles
Osborn, Preston Emerson....	Zoology.....		Whittier
Oswald, Christian Lester....	History....	40....	Los Angeles
Owen, Theodore Powell.....	Chem.....	40....	Santa Paula
Oxley, Mary Marguriete.....			Marion, Iowa
Palmer, Bertha Louise.....	Math.....	16.....	Compton
Pardue, Samuel Hollins.....		16+...	Los Angeles
Parmelee, Clara Elois.....	English....	106	South Pasadena
Parmelee, Florence.....		15.	South Pasadena
Parmenter, Charles Leroy.....		50....	Los Angeles
Pasko, Ruth Matelma.....			Ocean Park
Patterson, Clova Floyd.....		14.....	Parlier
Paulin, Harold David.....		15	Brentwood Park
Peterson, Dagmar.....			Brush, Colo.
Pidge, Gerald Dwight.....			Los Angeles
Poplin, Portia.....		16....	Los Angeles
Porter, Archie William Noel..	History....	112....	Los Angeles
Post, Adelbert James.....		10....	Los Angeles
Pratt, Marguerite Eugenia...	English....	65....	Los Angeles
Price, Edward Haynes.....	Phil.....	75....	Los Angeles
Prince, Ferd Jr.....	English....	16.....	Orange
Quandt, Iola Beatrice.....	German....	81....	Santa Monica
Reberger, William.....	Phil.....	73.....	Watts
Rebstock, Duane.....		8....	Los Angeles
Reed, Wallace Allison.....		13.....	Covina
Reeve, Theresa Frances.....	Latin.....	102....	Los Angeles

Name	Major	Hours	Home Address
Reynolds, Vera Dorothy.....		17.	Centealia, Wash.
Rhodes, Emily de Noyelles.....			Santa Monica
Richardson, Charles Kellogg.....		14....	Santa Paula
Richardson, Faith Harrington..Latin.....		112....	Santa Paula
Richardson, Frank Robert.....		23....	Santa Paula
Richardson, Grant.....		11....	Santa Paula
Rich, Willis Horton.....	Zoology....	108....	Los Angeles
Riche, Mansel Joseph.....	Chem.....	49	Marksville, La.
Rickard, Ernest Woodward...E. En'gr....		41.....	Hemet
Ritchey, Mattie.....		87.....	Santa Ana
Robertson, Blanche Louise..English....		14+.....	Ontario
Robertson, Flora Humason..English....		47.....	Riverside
Robinson, Ralph Leonard.....		14....	Los Angeles
Rogers, John.....	M. En'gr.....		Los Angeles
Roome, Beatrice May.....	English....	27....	Los Angeles
Rowley, Nathan Ellsworth.....		12.....	Escondido
Runyon, George Orien.....	Chem.....	103..	Arroyo Grande
Russell, Pearl Agnes.....	English....	107.....	Fresno
Ryan, Sylvia Nigel.....		15....	Los Angeles
Salle, R. Ward.....	C. En'gr... 10....		Lankershim
Sanderson, Mina Matilda.....		10	Manhattan Beach
Schieber, Homer James.....	C. En'gr... 13....		Los Angeles
Schieber, Oliver Jay.....	C. En'gr... 52....		Los Angeles
Schoeller, Jacob Diehl.....		6....	Los Angeles
Schuck, William John.....		15.	Lamberton, Minn.
Schwartz, William Leonard..English....		70.....	
			Kagoshima, Japan
Scott, Ben D.....		22....	Los Angeles
Shaffer, Hazel May.....		8	Basin, Wyoming
Shartle, Alberta Gertrude.....		5....	Los Angeles
Sheats, Lura Marie.....	German....	83.....	Santa Ana
Shepard, Anne Loomis.....		11....	Los Angeles
Sherer, Helen Grace.....			Los Angeles
Shimano, Kohei.....	Phil.....		Los Angeles
Short, Grace L.....			Whittier
Shulman, Leon.....			Los Angeles
Sinclair, Roscoe.....	E. En'gr... 16....		Los Angeles
Skinner, John Kenneith.....	M. En'gr... 22....		Los Angeles

Name	Major	Hours	Home Address
Smart, Elliott Plummer....	Zoology.....		Ontario
Smith, Elva.....		28	Idaho Falls, Ida.
Smith, Fred Arnold.....		29.....	Inglewood
Smith, John Jacob.....			Los Angeles
Smith, Robert Lewis.....		16.....	Hemet
Smith, Winifred Warner....	English....	11.....	Ontario
Spangler, Glen Harwood.....	Greek....	118.....	Los Angeles
Spear, William Howard.....	M. En'gr... 21.....		Los Angeles
Speicher, Florence Catherine	English....	57.....	Los Angeles
Speicher, M. Maude.....		15.....	Los Angeles
Spencer, Wendell Johnson.....		55.....	Los Angeles
Sproul, De Attreass C.....			Los Angeles
Squier, Ethel Leona.....	History.....		Los Angeles
Squires, Alma Markella.....		14.....	Ontario
Steffy, Eva Pearl.....	History....	18....	Santa Monica
Steller, Guy Earl.....		10....	Los Angeles
Steward, Valmore L.....	Chem.....	5.....	Anaheim
Stookey, Adele.....		88..	Hermosa Beach
Stookey, Byron Polk.....	Zoology....	102.	Hermosa Beach
Stovall, Leonard.....		44..	Prospect Park
Sullivan, Olive Iowe.....		7...	Shiffeld, Iowa
Summers, Eva Elizabeth.....		3.....	Fresno
Sutherland, Katie Elvira.....		3.....	Los Angeles
Swain, Alma.....		16.....	Whittier
Swantek, Louis.....	M. En'gr... 38.....		Los Angeles
Taft, A. Z.....		13....	Hollywood
Takatsuji, Masahachi.....	C. En'gr... 1.....		Los Angeles
Tarbell, Grace Winnifred.....			Santa Ana
Taylor, Howard Corbin.....	Phil.....	43..	Springville, Pa.
Taylor, Joseph Leon.....	History....	100....	Lankershim
Thielen, Lillian R.....	English.....		Los Angeles
Thornton, Alta Evelyn.....	Zoology....	114.....	La Mirada
Thornton, Ethel.....	History....	75.....	La Mirada
Thornton, Virgel.....	C. En'gr... 13.....		La Mirada
Tolchard, M. Veda.....			Los Angeles
Torre, Anna Maria Mrs.....			Los Angeles
Trask, Olive Adams.....			Los Angeles
Traynor, Wilfred.....	En'gr.....	5.....	Los Angeles

Truxaw, John W.....		Los Angeles
Tubbs, Frances Edna.....	14.....	Los Angeles
Tucker, Myrtle Margarite.....	19.....	Gardena
Tupman, Alice Kate.....	17.....	Los Angeles
Twining, Jennie May Mrs....	English....126.....	Los Angeles
Uber, Edna Radcliffe.....	18.....	Los Angeles
Unruh, Otto Adolph.....	Econ..... 16.....	Los Angeles
Uragami, Roy Eiji.....		Kumano, Japan
Vincent, Beatrice Phoebe.....	10.....	Covina
Wade, Franklin Sanborn....	Chem.....102.....	Hollywood
Walger, Edwin Scott.....	16.....	Los Angeles
Wall, Arnold Edward.....	3.....	Los Angeles
Wallace, Kenneth Clark.....	16.....	Los Angeles
Warner, Willis Huxley.....	16	Huntington Beach
Warning, Gustavus A.....	C. En'gr.....	Grand Jct., Colo.
Weber, Clarence Edward....	Chem.....110.....	Los Angeles
Weddle, Walter E.....		Dinuba
West, Howard Frank.....	History.... 14.....	Los Angeles
Westrem, Christine.....	English....106.....	Alhambra
Wharf, Bess Willard.....	12.....	Olney, Ill.
Whitaker, Gurden Hiram....	Econ..... 56.....	Pasadena
Wilcox, Mimie Retta.....	History.... 8.....	Los Angeles
Wiley, Lena Ellen.....	12.....	Downey
Willett, Grace Alice.....	Greek.... 44.....	Los Angeles
Willett, Hugh Carey.....		Los Angeles

A. B. University of Southern California.

Willis, Fred Hayes.....		Los Angeles
Wilson, John Oliver.....	English....111.....	Los Angeles
Winstanley, Ella Marguerite.....	11.....	Los Angeles
Wirsching, Carl Bernardino...	C. En'gr... 42.....	Los Angeles
Wood, Julia Emily.....		Oberlin, Ohio
Wood, Laura Mae.....	67.....	Whittier
Woodhead, Blanche E.....	17.....	Los Angeles
Woodhead, Florence Miriam.....	17.....	Los Angeles
Woodhead, Lora Mae.....	25.....	Los Angeles
Woollen, Thomas Gordon Jr.....	8.....	Los Angeles
Wooster, Roy Neill.....	Math.....	Spokane, Wash
Wright, Lelia.....		Redlands
Wrisley, Gerald Mauning....	Physics....113.....	Long Beach

Name	Major	Hours	Home Address
Wyatt, Julia Blanche.....	English....	51.....	Hermon
Young, Fenton Kent.....	C. En'gr....	5....	Willmington
Young, Gary Garfield.....	History....	65	Lodge Pole, Neb.
Zander, Lucille.....	German....	20.....	Los Angeles

THE PREPARATORY SCHOOL.

First Year.

Baillie, Hugh	Ellis, Francis Duffy
Beamer, Helen Josephine	Everett, Laverque James
Beckett, Wilbur Archer	Fellows, Doris Mae
Bell, Paul Sylvanus	Fogelman, Glenn Oliver
Bennett, Jessie Anna	Foster, Emory Alfred
Berberich, Thomas Carl	Geandrot, Alfred John
Bovard, Gladys Freeman	Gibson, Bernice Edna
Bowers, Alice Teresa	Girdlestone, May
Brooks, Ray	Hall, Myrtle May
Bruce, Ethel May	Hammond, Emma Evelyn
Bryant, Earsy Patrea	Hastings, Ray Harry
Bryant, Effie Surfeia	Holden, Laura Gertrude
Buckholtz, Rose Marie	Horne, Hazel Alturas
Butler, Laura	Hover, Harry Dustin
Campbell, Albert Nelson	Ikeuchi, Taneko
Chambers, Jennie Louise	Johnson, Edith Geneva
Chan, Katherine	Johnson, Frances Lulene
Chung, Margaret Jessie.	Johnson, Leonard Augustine
Chrysler, Everett Nelson	Jones, Zella Myrtle
Coomber, Doris	Kardell, Pearl
Coover, Arthur	Knoles, Stella Ellen
Corfield, Shirley Thomas	Langton, John McIntyre
Cory, Helen Ruth	Lee, Claude K.
Dalin, Carl Oscar	LeHardy, Rosine Marie Louise
Davidson, Harold Victor	Leiper, Vera
Davis, Mabel Louise	Lorentzen, Paul
Dickey, Clara Cecelia	Love, Harry Adison
Dixon, John Wardle	Mann, Ernest Lee
Dixon, William Galen	Manrique de Lara, Eduardo
Earl, Carl Everett	McGinty, Norma Anna
Elliott, Verne	Meserve, Dorothy Annette

Michel, Irvin Benjamin	Rogers, Earl Leroy
Miles, Charles Kenneth	Seely, Hazel Gladys
Miller, Lucille Marguerite	Shogren, Harry Edward
Miller, Pearl	Smith, George W.
Murdock, George Vencient	Smith, Rachael
Murray, Robert	Stewart, David Carl
Namkoong, David Yum	Thompson, Fanny Bean
Nelson, Maude	Thorne, Elsie May
O'Bear, Mary Katherine	Waldo, Allen William
O'Neil, Mary Phila	Wallace, Donald Joseph
Parmelee, Lester Vernon	Watson, William Homer
Peck, Ethel May	Werber, Paul Carl
Poole, William Jason	Werner, Stuart Noon
Pumphrey, William Vernon	Wyatt, Charles Merrill
Reese, Erna Gilbert	Wyatt, Jane Dillon

Second Year.

Allen, Bertha Thelma	Flinn, Homer John
Allison, Lester Loyle	Franklin, Ada Louise
Anderson, Susie Elizabeth	Frost, William Joseph
Ayers, Loren William	Garbutt, Fred Hay
Ayers, Lucile Jane	Grubb, Grace
Blythe, Carleta Louisa	Hall, Charles Walter
Bomhoff, Grace Evelyn	Hammack, Melville Carson
Boyle, James Lee	Hillhouse, Willie Andrew
Brown, Laura Elizabeth	Holloway, Joseph David
Buffington, Lilian Gertrude	Jeffers, Hamilton Moore
Bunker, Frank	Jones, Beatrice Lorena
Carr, Brenton Stanley	Jones, Frances
Carter, Jessie Merle	Judkins, Hazel
Chamelee, Rose May	Karns, Roscoe Lewis
Collison, Alice Margaret	Keogh, Joseph Patrick.
Cornwell, Chester Orlando	Knoch, Alice Cornwell
Craig, Stephen A.	Lambert, Raymond Vincent
Crampton, Theodore Henry M.	Lee, Jessie Mabel
Cynn, Paul Ponghue	Locke, Ruth May
Fiorini, Francis	Lok, Tan Ah
Fisher, Ruth Lula	Lorentzen, Samuel Ray
Flick, Gertrude Lillian	

Malan, Martha Angeline
McCrillis, Hazel Bethine
Michod, Rose Olive
Morton, William Taylor
Newberry, Claire Squires
Phelps, Mabel Alice
Powell, Walter Emmitt
Rees, Edith
Stokes, Anna Allaquippa

Stokes, Beatrice Alavan
Strathearn, Isabella McKinley
Tuttle, Rollin Simpson
Van Aken, Gertrude Elizabeth
Van Zandt, John Parker
Vermilion, David S.
Vitagliano, Christine
Ward, Robert Winnie
Williams, Harold Parish

Third Year.

Allen, Lawrence Winfield
Amis, Anna Joyce
Beane, Lenore Salesbury
Bernays, Anna Louise
Blount, Ralph
Blythe, Vivien Vesper
Bosbyshell, William
Chamley, Otto David
Chapman, Inez Pauline
Cook, Hazel Irene
Day, Orvil J.
Duignan, Katherine Fern
Fant, Paul B.
German, Nita Bird
Gillelan, Warren
Gilson, Lewis Edward
Gould, Jesse
Holmes, Ruth Alice
Hubbard, Carson Bernard
Hummel, Edward John
Hunter, Fanny
Hunter, Graham Burgess
Inwood, Grace Agnes
Jessup, Mary Catharine
Lock, Neil Milice
Longshore, Milton Mahlon
Malan, William Edward
McQuigg, Harry Martin

Montevarde, Florencio
Montgomery, Munro D.
Mulkey, Marvin Enoch
Nave, Junia
Ogborn, Ray J.
Okey, John Clark
Reiche, Charles Ferinand
Riechers, Bertha Louise
Rocho, Victor Luman
Rush, Bertha
Russell, Una May
Sargent, Fred Walter
Sloat, Harry William
Snyder, Gaylord Kenyon
Soule, Horace Manson
Thompson, Rip Victor
Thorne, Ina Gertrude
Thorne, Mildred Eliza
Wadsworth, Adda Rosa
Wadsworth, Jennie Phillips
Walters, Hazel Belle
Ward, Helen Josephine
Ward, Irtis Leah
Watkins, Ernest Arthur
Weaver, Charles Raymond
Wenk, Elizabeth Sarah
Young, Jessie St. Clair

Fourth Year.

Allen, Charles Lewis Jr.	Klitten, Karl A.
Brode, Alverda June	Larkin, Gail Carhart
Burmeister, Laura Elise	Lawrence, Arthur Douglas
Clyne, Frank William	Lennox, Howard Murray
Coleman, William Gaylord	Malan, Ella Mabel
Cóller, Helen A.	McCoy, John Rush
Cronemiller, Flora May	McCray, Aaron Calvin
Dowds, Edward Darwin	Mennell, Olive Emily
Dowds, Roy Wilson	Myers, Edith Marie Marshall
Fellows, Florence May	Oertly, Bertha Elisa
Ferguson, Cassie Luise	Pool, Adah Mae
Foster, Hattie Eliza	Prince, Claude Raymond
Fredenburg, Mary Pauline	Rivers, Lilian Frances
Freeman, Raymond Herald	Roome, Harry Verrinder
Franklin, Austin Wilson	Shute, Eugene Henry
Gilkey, Elza Claude	Slatter, Joseph McGue
Goodenow, Harold Wheelock	Smith, Eva Mae
Holcomb, Avis Esther	Smith, Leo J.
Humphrey, Helen Rosebrook	Soule, Kester Thomas
Jack, Norman M.	Thompson, Edd Griffin
Jacobs, Mary Blanche	Thorne, Emily Agnes
Johnston, Inez Aline	Thorne, Mary Marguerite
Jones, James Parks	Trotter, Harry Ebert
King, Charles Curtis	Yerge, Clyde Scott
Kistler, Earl Swickard	Ziegler, Ethel Grace

SUMMER SESSION 1907.

Adkinson, Kathryn	Bosbyshell, William
Ainsworth, Clarence J	Bowers, Alice T.
Allen, Florence E.	Bowser, Charles A.
Arnoldy, Fred N.	Brady, De Witt J.
Avakian, Arsen H.	Brode, Alverda June
Ballard, J. Hudson	Brown, John William
Barnhart, Percy S.	Brown, Laura E.
Bartruff, Zoe Sara	Browne, Eva Belle
Beane, George V.	Browning, Roberta E.
Berryman, John R.	Cain, Warren Robert
Bicksler, Myra	Carr, Brenton S.

Carter, Ray Alden	Koebig, W. C. S.
Cass, Isabella A.	Landreth, Lillian M.
Clay, Thomas Lyman	Lane, Josephine E.
Cobb, Norman	Lee, Hary Harrison
Cornwell, Chester O.	Lothrop, Vera Annette
Crall, D. Edwin	Macleish, Archibald Campbell
Cronemiller, Flora May	Malan, Ella Mabel
Crump, La Veta	Manning, Clarence C.
Davis, John Calvin Jr.	Manzy, Wayne Churchill
Demaree, Margaret W.	Mayer, George Kenney
Derby, Julia	McCeary, Charles
Dietrich, Emil Henry	McClellan, Leslie N.
Donahue, Marie A.	McKellar, Margaret Josephine
Everett, Marietta	McKnight, Henry F.
Ferguson, Cassie	McQuigg, Harry M.
Ferguson, Maude M.	Mee, Thomas Henry
Fiorini, Francis	Mennell, Olive Emily
Fitch, Frank Brewer	Miller, Earl Thomas
Franklin, Hardinia Perkins	Miller, Sarah K.
Franks, Almetta Faye	Nelson, Laura Elizabeth
Fredenburg, Mary Pauline	Polley, Bertha Anis
Frost, William Joseph	Powell, Walter Emmitt
Gleiss, F. J.	Prince, Claude Raymond
Gleiss, Irene Edith	Reiche, Charles Ferdinand
Griffen, Lucy	Reis, Clement Frank
Hansen, Lulu Lindley	Rich, Willis H.
Hogan, Ethel Josephine	Romig, Edith
Hough, John Homer	Roome, Harry V.
Hunter, Fanny	Sanford, John DeR.
Hyer, Louise Delilver	Sargent, Fred Walter
Jackson, Irving F.	Schwartz, William Leonard
Jackson, Wayne Bassett	Scott, Alfred Jay
Jacobs, Mary Blanch	Spangler, Glen Harwood
Jeffers, Hamilton Moore	Stellar, Guy Earl
Johnstone, Ernest Marshall	Swan, Mary Elizabeth
Keasbey, Edward	Talbot, Presley
Kern, L. Gertrude	Tettelbach, Maude
Kimble, Harrison	Thompson, Edward G.

Thorne, Emily Agnes	Walters, Hazel B.
Thorne, Mary Marguerite	Yip, Henry A.
Twining, Harry La Verne	Yoakum, F. E., Jr.
Twining, Jennie May	Young, Gary G.
Walberg, Harold E.	Zander, Lucille
Wallace, Kenneth Clark	Zumwalt, Goldie

COLLEGE OF MEDICINE.

Class of 1911.

Bardill, John Warner	Los Angeles, Cal. State Exam. Certificate.
Barnhart, Percy Spencer	Los Angeles, Cal. Univ. of Southern California.
Burk, Earl Elihu	Los Angeles, Cal. Richmond High School, Ind.
Choate, Joseph Lynn	Los Angeles, Cal. Stanford Univ., A.B., Univ. So. Cal., A. M.
De Lara, Hilario Manrique	Los Angeles, Cal. San Luis Potosi High School, 2 years Scientific Institute, San Luis Potosi, Mexico.
Dickson, George Gillespie	Los Angeles, Cal. Escondido High School, '05.
Dyck, Henry Otto	Los Angeles, Cal. Newton High School, Kansas.
Elliott, Reuben Jay	Los Angeles, Cal. State Exam. Certificate.
Homer, Ralph William	Los Angeles, Cal. State Exam. Certificate.
Jeffers, John Robinson	Los Angeles Occidental College, '05.
*Jesse, August Lawrence	Los Angeles, Cal. Valparaiso University.
Johnson, Duane	Los Angeles, Cal. State Exam. Certificate.
Lunt, James Phillip	Los Angeles, Cal. State Exam. Certificate, Barnes Medical College, '06.
Junius, William Bernhard	Ocean Park, Cal. State Exam. Certificate.
Macklin, Robert Kirkpatrick	Los Angeles, Cal. Waterman High School, Ill., 2 years Wheaton College
McDonald, Henry Michael	Los Angeles, Cal. St. Vincent's College, '07.

McKillop, John Edwin	Los Angeles, Cal.
Oregon State Normal, '04,	California Col., Oakland, '06.
Mills, Nathan Kendall	Los Angeles, Cal.
Earlham College, A. B.,	Richmond, Ind.
Nevius, John Wilson	Los Angeles
Univ. of Wisconsin, B. S.	
Peterson, Dagmar	Los Angeles, Cal.
State Exam. Certificate.	
Purcell, Ruth	Los Angeles, Cal.
State Exam. Certificate.	
Shulman, Leon	Los Angeles, Cal.
State Exam. Certificate.	
Smart, Elliott Plummer	Los Angeles, Cal.
Ontario High School, '06.	
Smith, John Jacob	Los Angeles, Cal.
Redlands High School.	
Stookey, Byron Polk	Los Angeles, Cal.
Univ. of Geneva, Switzerland.	
Tarbell, Grace Winifred	Los Angeles, Cal.
State Exam. Certificate.	
Truxaw, John Wenceslas	Los Angeles, Cal.
State Exam. Certificate.	
Weddle, Walter Ethelbert	Los Angeles, Cal.
State Univ., Nevada, B.S.	
Wright, Lelia	Los Angeles, Cal.
Redlands High School, '07.	

Second Year or Sophomore Students.

Class of 1910.

Brown, Charlotte Marie	Los Angeles, Cal.
State Examination Certificate.	
Burdette, Leo Wentworth	Los Angeles, Cal.
Queen's Univ., Kingston, Ont., Can., '04	
Cocke, John Vinton	Los Angeles, Cal.
State Exam. Certificate.	
Gardner, Vera P.	Los Angeles, Cal.
Stanford Univ., 2 years.	
Gates, Mark Gorman	Los Angeles, Cal.
Univ. Med. College, Kansas City, Mo.	
Grubb, Thomas Elmer	Los Angeles, Cal.
Los Angeles High School, '06.	
Hartwell, Robt. William	Tucson, Ariz.
Stanford Univ., 3 years.	

Kajii, Seizo	Los Angeles, Cal. Cooper Med. College, San Francisco, Cal.
Kunny, Bartholomew	Los Angeles, Cal. College of Medicine, Univ. of Ill.
Murray, Mrs. Olga	Los Angeles, Cal. State Exam. Certificate.
McNeil, Lyle Gillette	Los Angeles, Cal. State Univ. of Cal., 1 year.
Noot, William Ivor	Los Angeles, Cal. Cooper Med. College, San Francisco, Cal.
Roberts, Jean Margarette	Los Angeles, Cal. Occidental College, 2 years.
Ronan, Richard R.	Los Angeles, Cal. Cal. State Normal, '06.
Shank, Clyde Earl	Dayton, O. Acad. Miami Univ., Oxford, Ohio.
Thompson, Loyd Oscar	Whittier, Cal. New Westminster College, Ph.B.; Yale Med. Coll., 1 year.
Tower, Ora Isaiah	Glendale, Cal. Univ. of Louisville, Ky., Medical Department.
Utter, John William	Los Angeles, Cal. Cooper Medical College, San Francisco, Cal.
Waller, George J., Jr.	Los Angeles, Cal. Harvard School, Los Angeles, Cal.

Third Year or Junior Students.

Class of 1909.

Allen, Carlton Stewart	Los Angeles, Cal. Los Angeles High School, '04.
Cowan, James Rae	Los Angeles, Cal. College Lib. Arts, Univ. So. Cal., 2 years.
Duncan, Rex Dowler	Los Angeles, Cal. Creighton Medical College, 1 year.
Ellinwood, Lathrop McDowell	San Francisco, Cal. Cooper Medical College, San Francisco
Ellis, Melvin	Gardena, Cal. Depauw Univ., Ph. B., '03
Flagg, Don Perley	Los Angeles, Cal. Chicago College of Medicine, 2 years.
Hill, Walter B.	Garden Grove, Cal. Univ. of California, B.S.
Hiller, Albert W.	Los Angeles, Cal. Acad. Univ. Pacific, '05.

- Koebig, Walter C. Los Angeles, Cal.
College Lib. Arts, U. S. C., 1½ years.
- Mordoff, Charles Espy Los Angeles, Cal.
Univ. of Minnesota, 2 years.
- Osburn, Percy Priestley Pasadena, Cal.
Stanford Univ., 1 year.
- Peters, Mrs. Lulu Hunt Los Angeles, Cal.
Maine State Normal, '93; State Examiner's Certificate.
- Rosenkranz, Herbert A. F. Los Angeles, Cal.
Univ. of Chicago, 2 years.
- Scott, Alfred J., Jr. Los Angeles, Cal.
State Exam. Certificate.
- Townsend, Vinton Ray Long Beach, Cal.
Univ. of California, B.S.

Fourth Year or Senior Students.

Class of 1908.

- *Andrews, A. Los Angeles, Cal.
Central Univ., Danville, Ky.
- Boigelot, Andre Los Angeles, Cal.
Cooper Med. College, 3 years.
- Cahen, Caesar G. Los Angeles, Cal.
Los Angeles High School, Graduate.
- Cahen, Edmond Los Angeles, Cal.
Los Angeles High School, Graduate.
- Cook, Clarence W. Los Angeles, Cal.
State Exam. Certificate.
- Dakin, Wirt B. Muir, Michigan
N. W. Med. College, Chicago, Ill., 2 years.
- Doak, Thomas Coffing San Francisco, Cal.
Cooper Med. College, 1 year.
- Emmons, Calvert L. Ontario, Cal.
Univ. of Nebraska, 4 years; Med. Dept., 2 years.
- Eversole, Henry Owen
State Exam. Certificate.
- Finley, Theodore G. Los Angeles, Cal.
Earlham College, B.S.; Med. Dept. Univ. of Pa.; 1 year
- Frank, M. A. S. Burlington, Vermont
Burlington High School.
- *Furusawa, T. Osaka, Japan
M.D., Osaka Med. College, Japan, M. D.
- Graham, Charles Martin Visalia, Cal.
State Exam. Certificate.

- Graves, Selwyan Emmett Alhambra, Cal.
Belmont School, '03; U. of C., 1 year.
- Hastings, Seman Wood Los Angeles, Cal.
N. Y. State Normal, Graduate.
- Holleran, James Francis Los Angeles, Cal.
State Exam. Certificate.
- Horstmann, Miss Elsa H. Los Angeles, Cal.
Univ. So. Cal., A.B.
- Huggins, Walter Leslie Los Angeles, Cal.
Union College, Ph. B.; Albany Medical College, M.D., '99.
- Hull, F. E. Ventura, Cal.
Ventura High School, '00.
- Huntoon, Harry A. Chicago, Ill.
College P. & S., Chicago, Ill., 1 year.
- Jones, Alanson Halden Burlington, Vt.
Univ. Vt., A.B.; College Med. U. of Vt., 1 year.
- Macleish, Archibald Campbell Los Angeles, Cal.
Univ. of Cal., 3 years; Univ. of So. Cal., 1 year.
- *Matthews, Miss Pearl Eva Los Angeles, Cal.
Lib Arts, U. S. C., B. S. A. M.
- Newcomb, Ralph Henry Pasadena, Cal.
Med. Cert., Univ. State N. Y., '04.
- *Nishikata, A. Los Angeles, Cal.
Diploma from College P & S., San Francisco, Cal., '05.
- O'Brien, Joseph J. Los Angeles, Cal.
St. Vincent's College, Chicago, Ill.
- Pascoe, Elmer R. Los Angeles, Cal.
State Exam. Certificate.
- Rinker, Caspar L. A. Lincoln, Neb.
Univ. Nebraska, 4 years, Med. Dept., 2 years.
- Ross, Karl Los Angeles, Cal.
German-American Teachers' Seminary, 1 year.
- Simonds, Paul Edward Los Angeles, Cal.
Napa College; Univ. of Denver, 2 years.
- Tebbets, John Henry Los Angeles, Cal.
State Exam. Certificate.
- Ullyot, Thomas Henry Elmira, Ontario, Can.
Berlin High School, Canada.
- Weber, William Louis Huntington Park, Cal.
Browns College Prep. School, '03, Pa.

Special Students.

Andrews, W.	Los Angeles, Cal.
Cynn, Hugh H.	Los Angeles, Cal.
Furusawa, T.	Los Angeles, Cal.
Gibby, George H.	Los Angeles, Cal.
Jesse, A. G.	Los Angeles, Cal.
Manning, Wm. R.	Los Angeles, Cal.
Martin, J. A.	Los Angeles, Cal.
Matthews, E.	Los Angeles, Cal.
Nishikata, A.	Los Angeles, Cal.

COLLEGE OF DENTISTRY.**First Year.**

Ashmore, Grant	Hendrickson W. M.
Bergstrom, Grant	Jarvis, Hollis A.
Boone, Thomas E.	O'Connor, William S.
Copp, Jos. P.	Ross F. A.
Fukasawa, Harry J.	Stockman, D. D.
Green M. T.	White, Roy M.

Second Year.

Abbott, Clyde A.	Longham, J. T.
Aschenbremmer, C. F.	Lynn, Thomas
Barr, John	Misenhimer, L. L.
Ballagh, H. A.	Miyata, Yiyiro
Bolstead, Fred P.	Maile, J. V.
Chapin, Roy H.	Numbers, A. B. H.
Coffield, G. A.	Owa, N.
Daniels, Earl A.	Petterson, J. P.
Davis, Hugh M.	Schaefer, John G.
Felsenthal, Louis	Stewart, J. H.
Hatcher, L. Edna	Terao, K.
Howard, Jas. L.	Wessell, Geo.
Inverarity, Frank	Yoshida, Y. K.
Johnson, Alvin	

Third Year.

Alderson, Chas M.	Bean, Ray
Barney, W. A.	Brenner, Arthur J.

Buck, C. E.
 Burch, R. A.
 Carney, F. D.
 Chapman, W. W.
 Cresmer, C. J.
 Day, L. L.
 Davis, J. E.
 Ehred, C. T.
 Erwood, H. J.
 Farnham, H. H.
 Graham, Fred A.
 Gardner, Irving P.
 Helsby, Edgar E.
 High, D. B.
 Johnson, Edwin

King, A. A.
 Lord, A. N.
 Merchant, D. N.
 Odell, G. E.
 Osenburg, F. L.
 Prince, W. Earl
 Pitman, H. A.
 Ramirez, X. J.
 Schildwater, Fred D.
 Sinclair, Louis W.
 Sitherwood, D. L.
 Van Schoick, C. H.
 Voorhees, Perry
 Woollomes, C. R.

COLLEGE OF LAW.

Freshman.

Alvies, Robert L.
 Ambrose, Wiley D.
 Archer, Allen Thurman
 Arnold, Medford R.
 Atkins, Charles Louis
 Bagley, Charles Leland
 Baird, William Smyllie
 Barman, Fred Jr.*
 Best, Oliver Warren*
 Biffer, Frank Hugo
 Bloodgood, Freeman Henry
 Borden, Rhodes
 Brassfield, John Franklin
 Brown, C. C.
 Brown, Paul Winthrop
 Browning, Finley
 Bryon, David Parker
 Bryson, Frank
 Clewett, Howard Sinclair

Cooper, Morris E.
 Crampton, Theodore H. M.
 Creighton, H. W.
 Dewe, Albert*
 Dieterich, Edward
 Dillon, James De Koven
 Dunnigan, Richard A.
 Eckman, Arthur Wilson
 Finkenstein, M. J.*
 Folsom, Niles C.
 Gillelen, Warren Jr.
 Green, Albert Price*
 Hayek, Desiderics F. J.
 Head, N. S.*
 Heffelfinger, Raymond Wiley
 Hill, Alfred Julius
 Hitchcock, Alonzo Daffin
 Hopkins, Charles
 Hopkins, Melvill Perry

Howard, James Henry
 Jarrott, Robert Adams
 Jeffries, Richard Hoy*
 Johnson, Charles Brooks
 Jones, W. E.
 Keogh, Joseph Patrick
 Kidder, Albert Agustus
 Killgore, Albert Russell
 Krabill, Frank Jerome
 Leary, John
 Lloyd, Normand Angus
 Loeb, Edwin J.
 Lyman, Edward Dean
 Michelsen, Twain
 Morton, Claude Bernard
 McCartney, David Henry*
 McKeever, Myron Leone
 McNamee, Leo Aloysius
 McNeeley, William Thayer
 Normand, Mrs. Lucretia
 O'Hannesian, Aram
 Owen, Earl Wilford
 Pearson George M.
 Peck, Earl C.

Phillips, James Oliver
 Poole, William Jason
 Prat, Guy*
 Rice, Justus William*
 Richardson, George S.
 Richardson, Frank Hull
 Ryder, John Lynn
 Rubinovitz, Dr. A.
 Satterwhite, Walter
 Scholz, Charles F. A.
 Siemon, Alfred.
 Sloat, Harry William*
 Smith, Johnson S. B.
 Sorenson, A. W.
 Thompson, Raymond George
 Thompson, Mrs. E. M.*
 Wall, Edward Arnold
 Warring, Floyd Sylvian
 Watson, Van Hodgen
 Weber, A. A.
 Wellington, Frank M.
 Welch, George Stoner
 Wilkie, Earnest Earl
 Winnett, Earl Livesley

Juniors.

Alex, Anna Randal
 Allen, Edward Horace
 Bauer, Harry John
 Beech, Thomas Hawthorne
 Boland, William Patrick
 Bower, Leland Sanborn
 Brittain, Edward F.
 Brown, Henry
 Byrer, Clarence W.
 Davison, Walter Charles
 Fellows, Frederick William

Giesler, Harold Lee
 Glickman, Louis
 Goode, Ray Edgar
 Graham, Frank L. A.
 Henderson, Harvey Greene
 Hibbard, Duane Albert*
 Hoyt, Frank Crosby
 Hunsaker, Daniel McFarland
 Jones, Charles McLeon
 Kelley, Loyal C.
 Koepsel, Arthur Edward

Lacey, Courtney	Phillips, Thomas.
Lewis, Harry L.	Richardson, John Lawrence
Monteleone, Stephen	Schlegel, John
Morgan, Vincent	Smith, Earle Hurvey
Morris, Isador	Smith, Elroy*
Newmire, John Henry	Selph, Ewald
O'Connor, John Henry	Stanton, Louis B.*
Painter, Robert A.	Thorpe, Spencer G.
Petterson, J. Fred	Williams, C. Prudence
Pettit, Henry Gordon	Williams, Charles Ezra.

Seniors.

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Barrett, Elliott Hayward	Hutt, James H.*
Blakesley, Raphael Henry	Kerns, Rollin
Borden, Cecil A.	Le Doux, George A.*
Brown, Edgar	McClain, Julian Thomas
Cardwell, Lawrence	McCoy, Lon S.*
Clark, Oliver Oren	McKnight, James Stuart
Chase, Ralph Arthur	Penn, Clarence B.
Chandler, Moses*	Powell, Lewis Mortimer
Clayson, Walter Scott	Richards, Charles Hanson
Dickinson, Cecil Norman*	Richards, Frank Webster.
Dyar, Guy V.*	Slease, Clyde H.
Dutton, Roger Cole	Stayton, William Elsey
Evans, Leonard Arthur	Titus, Alice Linette
Forbes, Frank Sumner	Wall, William D.*
Freeman, William A.	Watton, Myra
Hammond, Percy Vernon*§	Weaver, George N.
Hanna, Byron Calvin	White, William Stephen
Hogan, James Patrick	Wilson, Charles S.

COLLEGE OF MUSIC.

Albright, Harrison	Asher, Hannah
Albright, Anna Louise	Ayers, Lucille
Albright, Catherine	Baker, Nellie

(* Special Student)

(§ Graduate Special)

Baker, Vesta	Fisher, Jane
Ball, Adelaide	Fisher, Rachel
Barre, Myrtle	Fortney, Dora
Barker, Everett	Fowler, Hazel
Barnett, Rena	Francisco, Mrs. Selma
Bell, Ruby	Garner, Vida
Bishop, Iola	Glanzman, Minnie
Berryhill, Mrs. S. Lane	Grimaude, Camilla
Black, Mary	Guy, Bernard
Boller, Mrs. Philip	Gwillan, Anna
Bowman, Esther	Gwillan, Fannie
Brown, Stella	Hall, Rowena
Brown, Anna	Harper, Cora
Bruce, Ethel	Hart, Addie
Buell, Leilah	Hastings, Ray H.
Butler, Mattie	Healy, Winifred
Butterfield, Priscilla	Herold, Ada E.
Buck, Faye	Hershey, Marjorie
Carson, Gladys	Hershey, Mr. G. H.
Carter, Merle	Hicks, May
Chandler, Ida	Hidden, Bertha
Chamlee, Archie	Hill, Hazel
Clough, Mr. A. D.	Himelberger, Irma
Coit, Lois	Hoskins, Dora
Corbin, Elsie	Holmes, Mrs. Hattie
Cook, Hazel	Howe, Marion
Cook, Maude	Howell, Mrs. C. A.
Cowan, Gilbert	Hunter, Horace
Crabbe, Lulu	Huntoon, Ethyl
Davidson, Esther	Hulin, Lydia
Denham, Merle	Hutton, Ada E.
Dickey, Clara	Hutchison, Mildred
Dinsmore, Lura	Jacobs, Clara
Dinsmore, Marguerita	Jacobs, Mamie
Egly, Margaret	Jessup, Mary
Ellis, Leila	Jones, Frances
Etz, Helen	Jones, Beatrice
Ferguson, Elsie	Jones, Zella

Jones, Mina	Poggi, Ruby
Jones, Violet	Reeves, Lulu
Jones, Myrtle	Riner, Grace
Joslin, Marion	Roome, Beatrice
Joslin, Phebe	Rosenkranze, Minnie Frances
Judd, Hazel	Rush, Bertha
Kile, Mrs.	Sargent, Fred
Kimmel, Marion	Schanck, Donna M.
King, Elsie	Schwartz, William
Knoles, Mrs. T. C.	Schwartz, Marie
Koch, Gertrude	Schultz, Florence
Kuster, Mrs. E. G.	Shephard, Muriel
Lady, Trula	Sherer, Helen
Lapham, Mildred	Short, Grace
Lee, Jessie	Simpson, Mrs. Eleanor
Leonard, Lois	Skeelee, Franklin
Lillie, Edna	Smith, Leonard
Lomis, Blanche	Smith, Rachel
Longwell, Margaret	Smith, Edna
Lowe, Eva	Snedecor, M. Ada
Loyd, Jessie	Snyder, Goldie
Malan, Martha	Stalker, Elsie
Mallory, Frances	Stanley, Regina
Martens, Ruth	Stevens, Lulu
Mester, Gertrude	Stiles, Vera
Metz, Pheobe	Summers, Eva
Michod, Rose	Sutton, Mrs. Josephine
Munson, Pearl	Taylor, Elizabeth
Myers, Jessie	Tubbs, Frances
Martens, Julia	Van Buskirk, Gladys
Miller, Ada J.	Van Aken, Gertrude
Nave, Junia	Vignes, Edwine
Nelson, Maude	Walline, Fannie
Newlin, Pansy	Walter, Jennie
Parks, Dora	Walter, Dottie
Parrish, Emma	Ward, Helen
Pasko, Ruth	Webb, Evah
Pezzoni, Millie	Webber, Lorena

Weber, Bertha
 White, Mrs. Estelle
 Whitaker, Mr. G. H.
 Whittaker, Ina
 Werner, Hilda
 Winter, Flora
 Winter, Laura

Wickham, Florence
 Wright, Ruby
 Wright, Mary
 Wyatt, Jane
 Wyatt, Blanche
 Young, Cary

COLLEGE OF ORATORY.

Private.

Ball, Adelaide L.
 Bawden, F. Hazel
 Best, Edna
 Bland, M. F.
 Brown, Florence
 Butters, Olive
 Campbell, Albert
 Chamlee, Hattie
 Chung, Margaret
 Clarke, Edna
 Davis, Mabel
 Dawson, Maude
 Dell, Hazel
 Everett, L. J.
 Fogleman, Glenn
 Foster, Hattie
 Gay, Leslie Jr.
 Gray, Cecelia
 Hanna, Tacie May
 Hensel, Gretchen Gertrude
 Howell, Jessica
 Iliff, Ruth M.
 Kardell, Pearl
 Keogh, Joseph

Loomis, Walter C.
 McConnell, Hazel E.
 Montgomery, Munroe
 Moore, Rev. J. L.
 Pratt, Marguerite
 Pressman, Lillian
 Ramboz, Ina W.
 Ritchey, Mattie
 Robertson, Blanche
 Romig, Edith May
 Sloat, Harry W.
 Smith, Eva M.
 Stivers, Virginia I.
 Swain, Almah
 Thornton, Alta E.
 Tuttle, Rollin S.
 Wallace, Kenneth
 White, Dorothy
 White, Lulu B.
 White, Marjorie
 Wilson, John Oliver
 Wood, Laura Mae
 Young, Mrs. M. K.

Class.

Ball, Adelaide L.
 Bawden, F. Hazel
 Beckwith, Herman
 Bowers, Chester

Bowron, Fletcher
 Brown, Edgar
 Brown, Florence
 Bruce, Ray W.

Butler, Henry	McConnell, Hazel E.
Butters, Luretta	McNeil, Diana B.
Butters, Olive	Mealy, Roy E.
Carroll, Frank	Montgomery, Munroe
Chamlee, Rose	Nordahl, Henry A.
Clarke, Edna	Pratt, Marguerite
Clewett, Howard S.	Pressman, Lillian
Crampton, Theo. H. M.	Ritchey, Mattie
Dawson, Maude	Robertson, Blanche
Dell, Hazel	Romig, Edith May
Ensely, Oliver P.	Runyon, Geo.
Everett, Marietta	Schwartz, Wm. J.
Fogleman, Glenn	Sloat, Harry
Giesler, H. L.	Smith, Fred A.
Gray, Cecelia	Speicher, Florence C.
Harper, Cora	Stivers, Virginia
Hensel, Gretchen Gertrude	Swain, Almah
Hitchcock, Alonzo D.	Thompson, E. G.
Holcomb, Avis	Thompson, R. G.
Holden, Laura G.	Thornton, Alta
Howard, J. H.	Tuttle, Rollin
Howell, Jessica	Warden, Carrie Mae
Ilf, Ruth M.	Warring, Floyd
Jackson, Smith	Watson, V. H.
James, Everett	West, Howard
Jarrott, R. A.	Westrum, Christine
Kardell, Pearl	Wilson, John Oliver
Loomis, Walter	

COLLEGE OF FINE ARTS.

Harrison, Julian	Bronson, Ruth
Keltmeyer, Hilda	Ward, Helen
Johnson, Emily	Corwin, Margaret
Smith, Emma Abigail.	Dickey, Helen J.
Winder, Chester	Hogan, Alice
Halpin, Mary	Corwin, Edith
Campbell, Julietta D.	McFarland, Eva
Parker, Edna L.	Cooper, Vera

Boening, Marie
Gordon, Teva
Barton, Roberta
Diggles, M. E.
Theal, Milly M.
Walker, Irene
Teskey Myrtle E.
Ecton, Beulah
Chase, Ada M. P.
Waterman, J. W.
Walferam, Evangeline
Harrison, Mildred Ray
Edwards, Bessie
Chess Adner
Shoemaker, Clarice
Wirz, Freda H.
Schmierer, Martha
McManamar Kathryn
McNitt Ralph
Gould, Margaret
Smith, Vesta F.
Ridey, D. M.

Nieman, Georgia
McKenne, Mary
Wheeler, Gardner
Baker, Willis
Gruhler, Beatrice
Parkins, Helen
Winder, Chester
Bridges, Emma
Bird, Jessica
Snell, Phebe
Anderson, Selpha Wood
Wetter, Walter A.
Dauds, Mrs. A. B. C.
Hagerman, Susan R.
Stringfield, Vivian
Cundiff, Bernice
Smith, John
Twichell, Mabel
Myers, Helen W.
Casey, Edith
Sorenson, Katherine
Sorenson, Hilda

COLLEGE OF PHARMACY.

Atterbury, Sheldon I.
Berdrow, Otto W.
Cooney, Frank
Dolley, Harry
Dutcher, Archibald
Finster, Arthur
Johnston, J. M.
Kelsea, Gertrude
Lehman, William H.
Lantis, Daniel R.
Ludden, J. A.
Merriken, George M.
Nakamura, Shiro

Peat, Raymond R.
Liston, Harry E.
Rouseyrol, Andre
Weimer, D. T.
Taylor, Chas. D.
Arrigo, Frank
Cuff, Maud A.
Krueger, Geo. L.
Lewis, Paul R.
Rogers, J. F.
Shaffer, Ralph
Valentine, Harry E.

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